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(54) Title: NUCLEIC ACIDS, PROTEINS, AND ANTIBODIES

(57) Abstract: The present invention relates to novel reproductive system related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "reproductive system related antigens", and the use of such reproductive system related antigens for detecting disorders of the reproductive system, particularly the presence of cancers and cancer metastases. More specifically, isolated reproductive system associated nucleic acid molecules are provided encoding novel reproductive system associated polypeptides. Novel reproductive system related polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human reproductive system associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the reproductive system, including reproductive system cancers, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.



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Nucleic Acids, Proteins, and Antibodies

- [001] This application refers to a "Sequence Listing" that is provided only on electronic media in computer readable form pursuant to Administrative Instructions Section 801(a)(i). The Sequence Listing forms a part of this description pursuant to Rule 5.2 and Administrative Instructions Sections 801 to 806, and is hereby incorporated in its entirety.
- [002] The Sequence Listing is provided as an electronic file (PC006PCT_seqList.txt, 20,399,961 bytes in size, created on January 12, 2001) on four identical compact discs (CD-R), labeled "COPY 1," "COPY 2," "COPY 3," and "CRF." The Sequence Listing complies with Annex C of the Administrative Instructions, and may be viewed, for example, on an IBM-PC machine running the MS-Windows operating system by using the V viewer software, version 2000 (see World Wide Web URL: http://www.fileviewer.com).

Field of the Invention

[003] The present invention relates to novel reproductive system related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "reproductive system antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such reproductive system polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, including, but not limited to, the presence of cancer and cancer metastases. More specifically, isolated reproductive system nucleic acid molecules are provided encoding novel reproductive system polypeptides. Novel

reproductive system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human reproductive system polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the reproductive system, including cancers of the reproductive system, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

Background of the Invention

[004] The human reproductive system enables continuation of the species. Human beings reproduce sexually, require the involvement of both a male and a female. Reproduction involves the coalition of sex cells. A new human being begins its development after a sex cell (sperm), created by the male unites with a sex cell (ovum) created by the female. Both the male and female reproductive systems function through the complex interaction of several organs. Diseases or malfunctions of these organs can impair reproduction or cause infertility.

The Male Reproductive System

[005] Male reproductive functions can be divided into three major subdivisions; spermatogenesis (the formation and maturation of sperm), performance of the male sexual act (arousal, erection, and ejaculation), and regulation of male sexual functions by the various hormones (mainly testosterone). Associated with these reproductive functions are the effects of the male sex hormones on the accessory sexual organs, cellular metabolism, growth, and on several other bodily functions. The onset of sexual maturation and these reproductive functions in males occurs at puberty, which, in humans, typically begins around age thirteen.

[006] The male reproductive system is composed of the testes, a pair of organs contained in the scrotum which include the seminiferous tubules and epididymus;

secretory glands, such as the prostate gland, seminal vesicles, bulbourethral glands, and urethral glands; tubular passageways, such as the vas deferens and urethra; and the penis, which functions in performance of the sexual act and sperm transmission.

[007] Common disorders of the male reproductive system include infections, cancers, and inflammations of the above listed components, which are described in greater detail below.

Disorders of the Testes

- [008] The two primary functions of the testes are 1) production of testosterone and 2) production of sperm. Testosterone produced in the testes is released into the blood stream, where it travels to and acts on a wide range of tissues and organs within the male body. Disorders resulting from testosterone deficiency are manifested in the male reproductive system typically by symptoms of hypogonadism, which is the failure to go through puberty. Specifically, erectile function is impaired, and libido and sperm production are decreased or absent.
- [009] Known dysfunctions of sperm production include aspermia (the failure to produce an ejaculate), asthenospermia (the production of an ejaculate in which less than 50% of spermatozoa are motile), azoospermia (the production of an ejaculate devoid of spermatozoa), oligospermia (production of an ejaculate containing less than 20x100 spermatozoa per milliliter of semen), and teratospermia (the production of an ejaculate in which more than 50% of the spermatozoa are of abnormal shape), all of which result in impaired fertility. Improper sperm formation may result from a variety of factors, including congenital defects, genetic abnormalities, injury, and infection. For example, contraction of the mumps virus early in male adolescence can infect the testicles, leading to permanent complications in sperm production.
- [010] Sperm formation may also be impaired by disorders of the epididymus, the labyrinthine tube system located in each testis where sperm mature. Common disorders include infections (e.g., Neisseria gonorrhoea, Pseudomonas, Enterobacteriaceae, and Chlamydia trachomatis), cyst formation or other obstructions, and enlargement of the spermatoceles (liquid filled cavities in the epididymus).
- [011] During fetal development, the testes mature within the abdominal cavity and descend through the inguinal canal into the scrotum prior to birth. It is well known

that the testicles reside in the scrotum because it is cooler than other places within the body cavity, and even minor temperature differences can have a dramatic influence on the ability of the testicle to make sperm. An undescended testicle, sometimes called a cryptorchid testicle, is a fairly common problem in male babies. Typically, testicles undescended at birth will move into the scrotum within the first year of life, however in a small percentage of cases this migration does not occur. Early correction of this problem is crucial in preserving the fertility of the male, as the testicles begin to loose the ability to make sperm very early in life in they are not properly stored in the scrotum. Additionally, undescended testicles have a much higher rate of developing testicular cancer than testicles that descended spontaneously. Testicular cancer is the most common solid tumor in males aged 18 to 35. It typically is extremely aggressive and spreads early. A tumor of the testicle often shows itself by a fast enlargement of the testicle. Bringing the testes into the scrotum will allow for easier and more accurate examination of the testes, hopefully resulting in earlier detection of tumors. Further, undescended testicles are also associated with a greater risk of hernia.

- [012] Disorders of the scrotal pouch commonly involve the small amount of fluid lining the pouch that allows for small movements and cushioning of the testicles. Several causes, such as testicular torsion, trauma, or tumors, may lead to an increase in the amount of liquid, causing the scrotal pouch to bulge. While this condition is harmless, it may cause irritation and discomfort if the bulge becomes too large.
- [013] Another harmless, yet irritating disease of the testes is varicocele, a disorder of the small vein that run the blood from the testicle back toward the heart. Small valves are present in these veins to prevent blood from flowing back toward the testicles. Sometimes, these valves malfunction, causing backflow and subsequent enlargement of the small vessel network in the scrotal sac. This gives rise to dull pain and an uncomfortable "bag of worms" feeling around the scrotum. There is currently considerable debate as to whether this phenomenon also contributes to decreased fertility.

Disorders of the Vas Deferens and Seminal Vesicles

[014] In the vas deferens, the sperm become mixed with a viscous, alkaline fluid from the seminal vesicles that constitutes 60% of semen. This fluid contains the

components for generating sperm motility and the enzymes necessary for fertilization of the egg within the female reproductive system. Disorders of the vas deferens and seminal vesicles are unusual, however a congenital defect where the vas deferens is absent is known to be associated with mutations in the CFTR gene, and a defect in seminal vesicle function is associated with the hydatid disease of the urogenital system.

Disorders of the Prostate Gland

Disorders of the prostate gland are typically manifested by enlargement of the gland, leading to such symptoms as impaired urinary flow, infertility, and pain. For example, benign prostatic hyperplasia is the non-cancerous growth of the prostate gland, a condition that is fairly common in men over sixty. Prostate cancer, too, is extremely prevalent and is now the second most common type of cancer in males. Although men of any age can develop prostate cancer, it is found most frequently in men over age 50. Types of prostate cancers include, but not limited to, adenocarcinomas, transitional cell carcinomas, ductal carcinomas, and squamous cell carcinomas. The prostate is subject to infections or inflammation, which may also result in enlargement of the prostate, such as acute bacterial prostatitis, chronic bacterial prostatitis, and nonbacterial prostatitis.

Disorders of the Penis and Urethra

[016] During sexual activity, the penis becomes rigid and erect, enabling penetration and deposition of sperm. An erection results from complex interaction of neurologic, vascular, hormonal, and psychologic actions. Several types of infections and inflammatory disorders can effect the penis and its function. Balanoposthitis is a generalized inflammation of the head of the penis (glans penis) and foreskin, commonly caused by a yeast or bacterial infection beneath the foreskin of an uncircumcised penis. Symptoms include pain, itching, redness, and swelling and can ultimately lead to a narrowing (stricture) of the urethra. Other infectious and inflammatory disorders, such as balanitis xerotica obliterans (a hardening of the tip of the penis which ultimately blocks urine and semen flow), phimosis (the shrinking or tightening of the foreskin), paraphimosis (inability of the retracted foreskin to be

pulled back over the head of the penis), and Erythroplasia of Queyrat (an infection causing a clearly defined reddish, velvety area on the skin of the penis). If left untreated, many of these infections may become cancerous.

- [017] Other infections can lead to penile growths, such as the small painless sores associated with syphilis, tiny blisters from the herpes simplex virus, firm nodules from genital warts, and dimpled growths (molluscum contagiosum) from an unknown virus. Small sores and growths are also associated with skin cancers (e.g., squamous cell carcinoma, Bowen's disease, and Paget's disease) that can occur anywhere on the penis.
- Priapism is a painful, persistant erection unaccompanied by sexual desire or excitement. In most cases, priapism is believed to stem from habitual drug use, but is had also been associated with blood disorders (e.g., blood clots, leukemia, or sickle cell disease), tumors in the pelvis or spine, and infection of the genitals. Peyronie's disease is manifested as a fibrous thickening of tissue that causes the penis to develop contractures so that the shape of an erection is distorted. The curvature of the erect penis can make sexual penetration difficult or impossible and may make erections extremely painful. Current therapies include corticosteroid injections, ultrasound treatments, or, more commonly, surgery, which may lead to impotence.
- [019] Impotence, or erectile dysfunction, is the consistent or recurrent inability to attain and maintain a penile erection rigid enough for satisfactory sexual intercourse. Erectile dysfunction relates only to the erectile capability of the penis, excluding problems of libido, ejaculation, and orgasm. It is now accepted that the majority of cases have a physical and not a psychogenic root. Physical causes include anatomic deformations (e.g., malformed genitalia or penile injury), diabetes mellitus, coronary disease, hypertension, atherosclerosis, high cholesterol levels, multiple sclerosis, stroke, lower spine diseases, and rectal or prostate surgery.

The Female Reproductive System

[020] The female reproductive system is comprised of both external and internal organs. The external organs function in permitting sperm to enter the body and protecting the internal genital organs from infection and injury. The internal organs

form a pathway (the genital tract) for reproduction, beginning at the ovaries, through the fallopian tubes (oviducts) and uterus, to the birth canal (vagina).

[021] The sexual and reproductive functions in the female can be divided into two major phases: first, preparation of the body for conception, and second, the gestation and parturition. Gestation and parturition only occur if an ovum becomes fertilized. If fertilization does not occur, the reproductive system undergoes a cycle to ensure frequent readiness for conception and fertilization.

[022] Common disorders of the female reproductive system include infections, cancers, and inflammations of the organs, which are described in greater detail below.

Disorders of the Uterus

- Disorders of the uterus include absent bleeding (amenorrhea) and abnormal bleeding. Amenorrhea is normal only before puberty, during pregnancy, while breastfeeding, and after menopause. The absence of menses at other times is considered aberrant and may be indicative of problems in the brain, pituitary gland, thyroid gland, adrenal glands, ovaries, or virtually any other part of the reproductive tract. For example, the hypothalamus signals the pituitary gland to release hormones that cause the ovaries to release eggs. Inappropriately low levels of hypothalamic hormones prevent egg release, halting the menstrual cycle. The same is true for the thyroid and adrenal glands. To illustrate, in Cushing's syndrome, excess production of cortisol by the adrenal glands causes periods to be absent or irregular. The absence of periods can also be caused by growths (e.g., hydatidiform moles) or scarring of the uterine lining due to infection or surgery (e.g., Asherman's syndrome).
- [024] Some women do not undergo puberty at all consequently their periods never start. Causes include a birth defect in which the uterus or fallopian tubes develop abnormally and chromosomal disorders. For example, in Turner's syndrome, the female was formed from a zygote containing only one X chromosome and shows reproductive abnormalities, such as amenorrhea and chronically immature breasts, labia, vagina.
- [025] Premature menopause is also a condition resulting in amenorrhea. Menopause is considered abnormal when it occurs in women under the age of forty. Causes of premature menopause include genetic (usually chromosomal) abnormalities and

autoimmune disorders in which antibodies damage the ovaries. Estrogen replacement therapy can prevent or reverse the symptoms of menopause, however the chance of conceiving a child remains less than ten percent.

- [026] Uterine bleeding is considered abnormal when it is atypically heavy, light, frequent, or irregular. Moreover, bleeding before puberty or after menopause is almost always abnormal. Uterine polyps, fibroids (noncancerous growths of muscle and fibrous tissues), and cancers are common causes of abnormal uterine bleeding and usually can be surgically removed. Cancers of the uterus include adenocarcinomas (cancers arising from the endometrial lining), leiomyosarcomas (cancers of the uterine smooth muscle), and sarcomas (cancers arising from the stroma).
- [027] Aberrant bleeding resulting from hormonal irregularities (commonly referred to a dysfunctional uterine bleeding) occurs most frequently at the beginning and end of the reproductive years and typically results from sustained levels of estrogen. For example, in polycystic ovary syndrome the overproduction of luteinizing hormone stimulates the production of large amounts of androgens some of which are converted to estrogen-which, without sufficient progesterone to counteract its effects, induces abnormal uterine bleeding.
- [028] Endometriosis is a disorder of the uterus in which patches of endometrial tissue, which normally is found only in the uterine lining, grow outside the uterus. Because the misplaced tissue responds to the same hormone that the uterus responds to, it may bleed during the menstrual period, causing cramps, pain, irritation, and the formation of scar tissue. As the disease progresses, adhesions may form and block the functioning of organs.
- [029] Disorders of uterine contraction include, for example, dysmenorrhea and preterm labor. During a normal period, the uterus undergoes mild contractions in order to aid in blood flow. Dysmenorrhea results when the contractions become inappropriately strong, inhibiting blood flow to the uterus. This deprives uterine muscle of oxygen, causing severe abdominal pain, as well as nausea, vomiting, diarrhea, headaches, weakness, and/or fainting. Sever cases of dysmenorrhea can significantly disrupt a womans life, leading to heavy work/school absenteeism and cases of pain killer addiction. Pre-term labor is also ascrious problem, resulting in a dramatic rise in associated infant morbidity and mortality (83% of infant deaths occur

in gestations less than 37 weeks). Therapies for extending the length of pregnancy beyond 32 weeks, and preferably beyond 36 weeks, could significantly reduce the incidence of neonatal morbidity and virtually eliminate a major cause of neonatal mortality.

Disorders of the Ovary

- [030] Anovulation (the absence of egg release by the ovaries) is a serious condition leading to infertility. The exact etiology of anovulation, especially in women with otherwise normal menstrual cycles, is unclear, however several potential causes are under study, including: impaired follicular development (probably due to low or absent estrogen production or binding), normal follicular development with lack of egg release (probably due to progesterone deficiency), or insufficient production of gonadotropin-releasing hormone from the hypothalamus. Current treatments include clomiphene injections or hormonal therapy, although both can lead to serious side effects such as ovarian cancer and ovarian hyperstimulation syndrome.
- [031] Anovulation is also associated with polycyctic ovary syndrome (also known as Stein-Leventhal syndrome). This syndrome is and endocrine disorder characterized by an elevated level of male hormones (androgens). Other than anovulation, symptoms include growth of male-patterned body hair (hirsutism), excessive acne, irregular or absent menses, excessive bleeding, and obesity. Usually, the ovaries appear enlarged and may contain many follicular cysts.
- [032] Ovarian cancer develops most often in women between the ages of 50 and 70. It is the third most common cancer of the female reproductive system, but more women die of ovarian cancers than of any other. Ovaries include a variety of cell types, each of which may give rise to a distinct type of cancer, including, but not limited to, ovarian epithelial cancer, ovarian germ cell tumors, ovarian papillary serous adenocarcinoma, ovarian mucinous adenocarcinoma, ovarian Krukenberg tumor, malignant mixed Mullerian tumors, and ovarian low malignant tumors.
- [033] Other disorders of the ovaries also include, but are not limited to, inflammatory disorders, such as oophoritis (e.g., caused by viral or bacterial infection), ovarian cysts, and autoimmune disorders (e.g., premature ovarian failure and autoimmune oophoritis).

Disorders of the Vagina and Vulva

[034] The vagina and vulva are self-cleaning. Secretions and discharges flow downward through the vagina and vulva, flushing out dead cells and other substances. Despite this cleaning mechanism, infections and inflammation are a common problem. The most common vaginal infections are bacterial vaginitis, candida vaginitis (e.g., yeast infections), trichomonas vaginitis, and vulvitis. Vaginal or vulvar itching, irritation, and abnormal discharge characterize all.

[035] Cancer of the vagina is extremely rare, accounting for only two percent of all gynecological cancers, and occurs primarily in women over the age of 50. The severity of the disease depends on the type of cancer and its exact location. Varieties include, for example, squamous cell carcinoma and clear cell adenocarcinoma. Once cancer appears in the vagina, it easily spreads to surrounding tissues. Vulvar cancer is equally unusual as vaginal, and is predominantly manifested as a form of skin cancer, e.g. squamous cell carcinomas and basal cell carcinomas. Other vulvar cancers include Paget's disease, cancer of Bartholin's gland, and melanomas. Unlike cancer of the vagina, vulvar cancers typically grow slowly and infrequently metastasize.

Disorders of the Breast

- [036] Disorders of the breast typically involve the formation of lesions within breast tissue. While many of these lesions are benign in nature, they may lead to cancer if left untreated.
- [037] Benign breast lesions include, for example, cysts, which are non-cancerous, fluid-filled sacs that forma mass within breast tissue. The cause of breast cysts is unknown, though injury may be involved, and their main symptom is pain. While considered harmless, a professional should drain cysts and the fluid examined because cancer of the cyst wall, although quite rare, is possible.
- [038] Other benign breast lesions include fibrous breast lumps (fibroadenomas), breast infection (mastitis), intraductal papilloma, and abscesses. Fibrous breast lumps are small, solid lumps of glandular tissue. These lumps usually appear in young women, often in teenagers, and are easy to remove. Intraductal papilloma are small lumps located within a milk duct, often causing inappropriate discharge from the

nipple. Breast abscesses are collections of pus in breast tissue that develop from breast infections that go untreated.

[039] Breast cancer is the most common cancer among women, other than skin cancer and is the second leading cause of cancer death in women, after lung cancer. The American Cancer Society predicts that there will be about 182,800 new cases of invasive breast cancer in the year 2000 among women in this country and about 40,800 deaths from the disease. Breast cancer also occurs among men, although much less often. It is generally believed that this malignancy arises from a multi step process involving mutations in a relatively small number of genes, perhaps 10 or less. These mutations result in significant changes in the growth and differentiation of breast tissue that allow it to grow independent of normal cellular controls, to metastasize, and to escape immune surveillance. The genetic heterogeneity of most breast cancers suggests that they arise by a variety of initiating events and that the characteristics of individual cancers are due to the collective pattern of genetic changes that accumulate.

[040] The discovery of new human reproductive system associated polynucleotides, the polypeptides encoded by them, and antibodies that immunospecifically bind these polypeptides, satisfies a need in the art by providing new compositions which are useful in the diagnosis, treatment, prevention and/or prognosis of disorders of the reproductive system, including, but not limited to, disorders of the male reproductive system including, for example, testicular disorders (e.g., hypogonadism, infection (e.g., Neisseria gonorrhoea, Enterobacteriaceae, and/or as described in the "Reproductive System Disorders" section below), asthenospermia, teatospermia, cryptorchid testicle, testicular cancers, varicocele, and/or as described in the "Reproductive System Disorders" section below), prostate disorders (e.g., prostate cancers, benign prostatic hyperplasia, and/or as described in the "Reproductive System Disorders" section below), disorders of the penis (e.g., balanoposthitis, phimosis, genital warts, skin cancer, priapism, Peyronie's disease, erectile dysfunction, and/or as described in the "Reproductive System Disorders" section below); and disorders of the female reproductive system including, for example, disorders of the uterus (e.g., Cushing's syndrome, Asherman's syndrome, Turner's syndrome, premature menopause, uterine cancers, endometriosis, and/or as described in the "Reproductive System Disorders" section below), ovarian disorders (e.g., anovulation, polycystic ovary syndrome,

ovarian cancers, and/or as described in the "Reproductive System Disorders" section below), vaginal and vulvar disorders (e.g., vulvitis, vaginal infections, Paget's disease, cancers of the vagina and vulva, and/or as described in the "Reproductive System Disorders" section below), and breast disorders (e.g., breast cancers, fibroadenomas, intraductal papillomas, and/or as described in the "Reproductive System Disorders" section below).

Summary of the Invention

[041] The present invention relates to novel reproductive system related polynucleotides, the polypeptides encoded by these polynucleotides herein collectively referred to as "reproductive system antigens," and antibodies that immunospecifically bind these polypeptides, and the use of such reproductive system polynucleotides, antigens, and antibodies for detecting, treating, preventing and/or prognosing disorders of the reproductive system, including, but not limited to, the presence of cancer and cancer metastases. More specifically, isolated reproductive system nucleic acid molecules are provided encoding novel reproductive system polypeptides. Novel reproductive system polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human reproductive system polynucleotides, polypeptides, and/or antibodies. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the reproductive system, including cancers of the reproductive system, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The invention further relates to methods and/or compositions for inhibiting or promoting the production and/or function of the polypeptides of the invention.

Detailed Description

Tables

Table 1A summarizes some of the polynucleotides encompassed by the [042] invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) and contig nucleotide sequence identifier (SEQ ID NO:X)) and further summarizes certain characteristics of these polynucleotides and the polypeptides encoded thereby. The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA plasmid related to each reproductive system associated contig sequence disclosed in Table 1A. The second column provides a unique contig identifier, "Contig ID:" for each of the contig sequences disclosed in Table 1A. The third column provides the sequence identifier, "SEQ ID NO:X", for each of the contig polynucleotide sequences disclosed in Table 1A. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:X that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1A as SEQ ID NO:Y (column 5). Column 6 lists residues comprising predicted epitopes contained in the polypeptides encoded by each of the preferred ORFs (SEQ ID NO:Y). Identification of potential immunogenic regions was performed according to the method of Jameson and Wolf (CABIOS, 4:181-186 (1988)); specifically, the Genetics Computer Group (GCG) implementation of this algorithm, embodied in the program PEPTIDESTRUCTURE (Wisconsin Package v10.0, Genetics Computer Group (GCG), Madison, Wisc.). This method returns a measure of the probability that a given residue is found on the surface of the protein. Regions where the antigenic index score is greater than 0.9 over at least 6 amino acids are indicated in Table 1A as "Predicted Epitopes." In particular embodiments, reproductive system associated polypeptides of the invention comprise, or alternatively consist of, one, two, three, four, five or more of the predicted epitopes described in Table 1A. It will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly. Column 7, "Tissue Distribution" shows the expression profile of tissue, cells, and/or cell line libraries which express the polynucleotides of the invention. The first

number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. Expression of these polynucleotides was not observed in the other tissues and/or cell libraries tested. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon), represents the number of times a sequence corresponding to the reference polynucleotide sequence (e.g., SEQ ID NO:X) was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ³³P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. Column 8, "Cytologic Band," provides the chromosomal location of polynucleotides corresponding to SEQ ID NO:X. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Given a presumptive chromosomal location, disease locus association was determined by comparison with the Morbid Map, derived from Online Mendelian Inheritance in Man (Online Mendelian

Inheritance in Man, OMIMTM. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine (Bethesda, MD) 2000. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/). If the putative chromosomal location of the Query overlapped with the chromosomal location of a Morbid Map entry, an OMIM identification number is provided in Table 1A, column 9 labeled "OMIM Disease Reference(s)". A key to the OMIM reference identification numbers is provided in Table 5.

- Table 1B summarizes additional polynucleotides encompassed by the [043] invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) contig nucleotide sequence identifiers (SEQ ID NO:X)), and genomic sequences (SEQ ID NO:B). The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to each contig sequence. The second column provides the sequence identifier, "SEQ ID NO:X", for each contig sequence. The third column provides a unique contig identifier, "Contig ID:" for each contig sequence. The fourth column, provides a BAC identifier "BAC ID NO:A" for the BAC clone referenced in the corresponding row of the table. The fifth column provides the nucleotide sequence identifier, "SEQ ID NO:B" for a fragment of the BAC clone identified in column four of the corresponding row of the table. The sixth column, "Exon From-To", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:B which delineate certain polynucleotides of the invention that are also exemplary members of polynucleotide sequences that encode polypeptides of the invention (e.g., polypeptides containing amino acid sequences encoded by the polynucleotide sequences delineated in column six, and fragments and variants thereof).
- [044] Table 2 summarizes homology and features of some of the polypeptides of the invention. The first column provides a unique clone identifier, "Clone ID NO:Z", corresponding to a cDNA disclosed in Table 1A. The second column provides the unique contig identifier, "Contig ID:" corresponding to contigs in Table 1A and allowing for correlation with the information in Table 1A. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity

disclosed in the row was determined. Comparisons were made between polypeptides encoded by the polynucleotides of the invention and either a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFAM") as further described below. The fifth column provides a description of PFAM/NR hits having significant matches to a polypeptide of the invention. Column six provides the accession number of the PFAM/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Columns 8 and 9, "NT From" and "NT To" respectively, delineate the polynucleotides in "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFAM/NR database as disclosed in the fifth column. In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, an amino acid sequence encoded by the polynucleotides in SEQ ID NO:X as delineated in columns 8 and 9, or fragments or variants thereof.

[045] Table 3 provides polynucleotide sequences that may be disclaimed according to certain embodiments of the invention. The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to reproductive system associated contig sequences disclosed in Table 1A. The second column provides the sequence identifier, "SEQ ID NO:X", for contig polynucleotide sequences disclosed in Table 1A. The third column provides the unique contig identifier, "Contig ID", for contigs disclosed in Table 1A. The fourth column provides a unique integer 'a' where 'a' is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, represented as "Range of a", and the fifth column provides a unique integer 'b' where 'b' is any integer between 15 and the final nucleotide of SEQ ID NO:X, represented as "Range of b", where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. For each of the polynucleotides shown as SEQ ID NO:X, the uniquely defined integers can be substituted into the general formula of a-b, and used to describe polynucleotides which may be preferably excluded from the invention. In certain embodiments, preferably excluded from the polynucleotides of the invention (including polynucleotide fragments and variants as described herein and diagnostic and/or therapeutic uses based on these polynucleotides) are at least one, two, three, four, five, ten, or more of the polynucleotide sequence(s) having the accession number(s) disclosed in the sixth

column of this Table (including for example, published sequence in connection with a particular BAC clone). In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table (including for example, the actual sequence contained in an identified BAC clone).

- Table 4 provides a key to the tissue/cell source identifier code disclosed in Table 1A, column 7. Column 1 provides the key to the tissue/cell source identifier code disclosed in Table 1A, Column 7. Columns 2-5 provide a description of the tissue or cell source. Codes corresponding to diseased tissues are indicated in column 6 with the word "disease". The use of the word "disease" in column 6 is non-limiting. The tissue or cell source may be specific (e.g. a neoplasm), or may be disease-associated (e.g., a tissue sample from a normal portion of a diseased organ). Furthermore, tissues and/or cells lacking the "disease" designation may still be derived from sources directly or indirectly involved in a disease state or disorder, and therefore may have a further utility in that disease state or disorder. In numerous cases where the tissue/cell source is a library, column 7 identifies the vector used to generate the library.
- Table 5 provides a key to the OMIMTM reference identification numbers disclosed in Table 1A, column 9. OMIM reference identification numbers (Column 1) were derived from Online Mendelian Inheritance in Man (Online Mendelian Inheritance in Man, OMIMTM. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine, (Bethesda, MD) 2000. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/). Column 2 provides diseases associated with the cytologic band disclosed in Table 1A, column 8, as determined from the Morbid Map database.
- [048] Table 6 summarizes ATCC Deposits, Deposit dates, and ATCC designation numbers of deposits made with the ATCC in connection with the present application.
- [049] Table 7 shows the cDNA libraries sequenced, tissue source description, vector information and ATCC designation numbers relating to these cDNA libraries.
- [050] Table 8 provides a physical characterization of clones encompassed by the invention. The first column provides the unique clone identifier, "Clone ID NO:Z",

for certain cDNA clones of the invention, as described in Table 1A. The second column provides the size of the cDNA insert contained in the corresponding cDNA clone.

Definitions

[051] The following definitions are provided to facilitate understanding of certain terms used throughout this specification.

[052] In the present invention, "isolated" refers to material removed from its original environment (e.g., the natural environment if it is naturally occurring), and thus is altered "by the hand of man" from its natural state. For example, an isolated polynucleotide could be part of a vector or a composition of matter, or could be contained within a cell, and still be "isolated" because that vector, composition of matter, or particular cell is not the original environment of the polynucleotide. The term "isolated" does not refer to genomic or cDNA libraries, whole cell total or mRNA preparations, genomic DNA preparations (including those separated by electrophoresis and transferred onto blots), sheared whole cell genomic DNA preparations or other compositions where the art demonstrates no distinguishing features of the polynucleotide sequences of the present invention.

As used herein, a "polynucleotide" refers to a molecule having a nucleic acid sequence encoding SEQ ID NO:Y or a fragment or variant thereof, a nucleic acid sequence contained in SEQ ID NO:X (as described in column 3 of Table 1A) or the complement thereof, a cDNA sequence contained in Clone ID NO:Z (as described in column 1 of Table 1A and contained within a library deposited with the ATCC); a nucleotide sequence encoding the polypeptide encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B or a fragment or variant thereof; or a nucleotide coding sequence in SEQ ID NO:B as defined in column 6 of Table 1B or the complement thereof. For example, the polynucleotide can contain the nucleotide sequence of the full length cDNA sequence, including the 5' and 3' untranslated sequences, the coding region, as well as fragments, epitopes, domains, and variants of the nucleic acid sequence. Moreover, as used herein, a "polypeptide" refers to a molecule having an amino acid sequence encoded by a polynucleotide of the invention as broadly defined (obviously excluding poly-Phenylalanine or poly-Lysine peptide

sequences which result from translation of a polyA tail of a sequence corresponding to a cDNA).

polynucleotide disclosed herein (e.g., a nucleic acid sequence contained in SEQ ID NO:X or the complement therof, or cDNA sequence contained in Clone ID NO:Z, or a nucleotide sequence encoding the polypeptide encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B, or a nucleotide coding sequence in SEQ ID NO:B as defined in column 6 of Table 1B or the complement thereof and fragments or variants thereof as described herein) or any polypeptide disclosed herein (e.g., an amino acid sequence contained in SEQ ID NO:Y, an amino acid sequence encoded by SEQ ID NO:X, or the complement thereof, an amino acid sequence encoded by the cDNA sequence contained in Clone ID NO:Z, an amino acid sequence encoded by SEQ ID NO:B, or the complement thereof, and fragments or variants thereof as described herein). These reproductive system antigens have been determined to be predominantly expressed in reproductive system tissues, including normal or diseased tissues (as shown in Table 1A column 7 and Table 4).

In the present invention, "SEQ ID NO:X" was often generated by overlapping [055] sequences contained in multiple clones (contig analysis). A representative clone containing all or most of the sequence for SEQ ID NO:X is deposited at Human Genome Sciences, Inc. (HGS) in a catalogued and archived library. As shown, for example, in column 1 of Table 1A, each clone is identified by a cDNA Clone ID (identifier generally referred to herein as Clone ID NO:Z). Each Clone ID is unique to an individual clone and the Clone ID is all the information needed to retrieve a given clone from the HGS library. Furthermore, certain clones disclosed in this application have been deposited with the ATCC on October 5, 2000, having the ATCC designation numbers PTA 2574 and PTA 2575; and on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2. In addition to the individual cDNA clone deposits, most of the cDNA libraries from which the clones were derived were deposited at the American Type Culture Collection (hereinafter "ATCC"). Table 7 provides a list of the deposited cDNA libraries. One can use the Clone ID NO:Z to determine the library source by reference to Tables 6 and 7. Table 7 lists the deposited cDNA libraries by name and links each library to an ATCC

Deposit. Library names contain four characters, for example, "HTWE." The name of a cDNA clone (Clone ID NO:Z) isolated from that library begins with the same four characters, for example "HTWEP07". As mentioned below, Table 1A correlates the Clone ID NO:Z names with SEQ ID NO:X. Thus, starting with an SEQ ID NO:X, one can use Tables 1A, 6 and 7 to determine the corresponding Clone ID NO:Z, which library it came from and which ATCC deposit the library is contained in. Furthermore, it is possible to retrieve a given cDNA clone from the source library by techniques known in the art and described elsewhere herein. The ATCC is located at 10801 University Boulevard, Manassas, Virginia 20110-2209, USA. The ATCC deposits were made pursuant to the terms of the Budapest Treaty on the international recognition of the deposit of microorganisms for the purposes of patent procedure.

[056] In specific embodiments, the polynucleotides of the invention are at least 15, at least 30, at least 50, at least 100, at least 125, at least 500, or at least 1000 continuous nucleotides but are less than or equal to 300 kb, 200 kb, 100 kb, 50 kb, 15 kb, 10 kb, 7.5 kb, 5 kb, 2.5 kb, 2.0 kb, or 1 kb, in length. In a further embodiment, polynucleotides of the invention comprise a portion of the coding sequences, as disclosed herein, but do not comprise all or a portion of any intron. In another embodiment, the polynucleotides comprising coding sequences do not contain coding sequences of a genomic flanking gene (i.e., 5' or 3' to the gene of interest in the genome). In other embodiments, the polynucleotides of the invention do not contain the coding sequence of more than 1000, 500, 250, 100, 50, 25, 20, 15, 10, 5, 4, 3, 2, or 1 genomic flanking gene(s).

[057] A "polynucleotide" of the present invention also includes those polynucleotides capable of hybridizing, under stringent hybridization conditions, to sequences contained in SEQ ID NO:X, or the complement thereof (e.g., the complement of any one, two, three, four, or more of the polynucleotide fragments described herein), the polynucleotide sequence delineated in columns 8 and 9 of Table 2 or the complement thereof, and/or cDNA sequences contained in Clone ID NO:Z (e.g., the complement of any one, two, three, four, or more of the polynucleotide fragments, or the cDNA clone within the pool of cDNA clones deposited with the ATCC, described herein) and/or the polynucleotide sequence delineated in column 6 of Table 1B or the complement thereof. "Stringent hybridization conditions" refers to an overnight incubation at 42

degree C in a solution comprising 50% formamide, 5x SSC (750 mM NaCl, 75 mM trisodium citrate), 50 mM sodium phosphate (pH 7.6), 5x Denhardt's solution, 10% dextran sulfate, and 20 µg/ml denatured, sheared salmon sperm DNA, followed by washing the filters in 0.1x SSC at about 65 degree C.

- [058] Also contemplated are nucleic acid molecules that hybridize to the polynucleotides of the present invention at lower stringency hybridization conditions. Changes in the stringency of hybridization and signal detection are primarily accomplished through the manipulation of formamide concentration (lower percentages of formamide result in lowered stringency), salt conditions, or temperature. For example, lower stringency conditions include an overnight incubation at 37 degree C in a solution comprising 6X SSPE (20X SSPE = 3M NaCl; 0.2M NaH₂PO₄; 0.02M EDTA, pH 7.4), 0.5% SDS, 30% formamide, 100 ug/ml salmon sperm blocking DNA; followed by washes at 50 degree C with 1XSSPE, 0.1% SDS. In addition, to achieve even lower stringency, washes performed following stringent hybridization can be done at higher salt concentrations (e.g. 5X SSC).
- [059] Note that variations in the above conditions may be accomplished through the inclusion and/or substitution of alternate blocking reagents used to suppress background in hybridization experiments. Typical blocking reagents include Denhardt's reagent, BLOTTO, heparin, denatured salmon sperm DNA, and commercially available proprietary formulations. The inclusion of specific blocking reagents may require modification of the hybridization conditions described above, due to problems with compatibility.
- [060] Of course, a polynucleotide which hybridizes only to polyA+ sequences (such as any 3' terminal polyA+ tract of a cDNA shown in the sequence listing), or to a complementary stretch of T (or U) residues, would not be included in the definition of "polynucleotide," since such a polynucleotide would hybridize to any nucleic acid molecule containing a poly (A) stretch or the complement thereof (e.g., practically any double-stranded cDNA clone generated using oligo dT as a primer).
- [061] The polynucleotide of the present invention can be composed of any polyribonucleotide or polydeoxribonucleotide, which may be unmodified RNA or DNA or modified RNA or DNA. For example, polynucleotides can be composed of single- and double-stranded DNA, DNA that is a mixture of single- and double-

stranded regions, single- and double-stranded RNA, and RNA that is mixture of single- and double-stranded regions, hybrid molecules comprising DNA and RNA that may be single-stranded or, more typically, double-stranded or a mixture of single- and double-stranded regions. In addition, the polynucleotide can be composed of triple-stranded regions comprising RNA or DNA or both RNA and DNA. A polynucleotide may also contain one or more modified bases or DNA or RNA backbones modified for stability or for other reasons. "Modified" bases include, for example, tritylated bases and unusual bases such as inosine. A variety of modifications can be made to DNA and RNA; thus, "polynucleotide" embraces chemically, enzymatically, or metabolically modified forms.

[062] The polypeptide of the present invention can be composed of amino acids joined to each other by peptide bonds or modified peptide bonds, i.e., peptide isosteres, and may contain amino acids other than the 20 gene-encoded amino acids. The polypeptides may be modified by either natural processes, such as posttranslational processing, or by chemical modification techniques which are well known in the art. Such modifications are well described in basic texts and in more detailed monographs, as well as in a voluminous research literature. Modifications can occur anywhere in a polypeptide, including the peptide backbone, the amino acid side-chains and the amino or carboxyl termini. It will be appreciated that the same type of modification may be present in the same or varying degrees at several sites in a Also, a given polypeptide may contain many types of given polypeptide. modifications. Polypeptides may be branched, for example, as a result of ubiquitination, and they may be cyclic, with or without branching. Cyclic, branched, and branched cyclic polypeptides may result from posttranslation natural processes or may be made by synthetic methods. Modifications include acetylation, acylation, ADP-ribosylation, amidation, covalent attachment of flavin, covalent attachment of a heme moiety, covalent attachment of a nucleotide or nucleotide derivative, covalent attachment of a lipid or lipid derivative, covalent attachment of phosphotidylinositol, cross-linking, cyclization, disulfide bond formation, demethylation, formation of covalent cross-links, formation of cysteine, formation of pyroglutamate, formylation, gamma-carboxylation, glycosylation, GPI anchor formation, hydroxylation, iodination, oxidation, methylation, myristoylation, pegylation, proteolytic processing,

phosphorylation, prenylation, racemization, selenoylation, sulfation, transfer-RNA mediated addition of amino acids to proteins such as arginylation, and ubiquitination. (See, for instance, PROTEINS - STRUCTURE AND MOLECULAR PROPERTIES, 2nd Ed., T. E. Creighton, W. H. Freeman and Company, New York (1993); POSTTRANSLATIONAL COVALENT MODIFICATION OF PROTEINS, B. C. Johnson, Ed., Academic Press, New York, pgs. 1-12 (1983); Seifter et al., Meth. Enzymol. 182:626-646 (1990); Rattan et al., Ann. N.Y. Acad. Sci. 663:48-62 (1992).)

- [063] "SEQ ID NO:X" refers to a polynucleotide sequence described, for example, in Tables 1A or 2, while "SEQ ID NO:Y" refers to a polypeptide sequence described in column 5 of Table 1A. SEQ ID NO:X is identified by an integer specified in column 3 of Table 1A. The polypeptide sequence SEQ ID NO:Y is a translated open reading frame (ORF) encoded by polynucleotide SEQ ID NO:X. "Clone ID NO:Z" refers to a cDNA clone described in column 1 of Table 1A.
- [064] "A polypeptide having biological activity" refers to a polypeptide exhibiting activity similar to, but not necessarily identical to, an activity of a polypeptide of the present invention, including mature forms, as measured in a particular biological assay, with or without dose dependency. In the case where dose dependency does exist, it need not be identical to that of the polypeptide, but rather substantially similar to the dose-dependence in a given activity as compared to the polypeptide of the present invention (i.e., the candidate polypeptide will exhibit greater activity or not more than about 25-fold less and, preferably, not more than about tenfold less activity, and most preferably, not more than about three-fold less activity relative to the polypeptide of the present invention).
- [065] Table 1A summarizes some of the reproductive system associated polynucleotides encompassed by the invention (including contig sequences (SEQ ID NO:X) and clones (Clone ID NO:Z) and further summarizes certain characteristics of these polynucleotides and the polypeptides encoded thereby.

Polynucleotides and Polypeptides

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Clone ID C	Contig	OEO ID	ORF	AA	Predicted Epitopes	Tissue Distribution	Cytologic	OMIM
NO: Z	ä	NO: X	(From-To)	SEQ		Library code: count	Band	Disease
				A ;		see Table IV for		Reference(s):
ヿ				NO: Y		Library Codes)		
H7MCE35 9	928554	==	71 - 3	2698		S0286: 1 and S0284: 1.		
H7MDC49 7	722780	12	125 - 3	2699		S0284: 2 and L0758: 1.		
H7MDD72 8	847688	13	100 - 510	2700	Glu-9 to Gly-22,	AR054: 6, AR050: 2,		
						AR051: 1, AR089: 1,		
		•			Gly-91 to Arg-107,	AR061: 0		
_					Pro-113 to Ile-129,	S0284: 2		
					Tyr-131 to Gln-137.			-
8	887805	2651	3 - 824	5338				
HAOSHS5 9	952380	14	2 - 355	2701	Pro-17 to Glu-28,	L0770: 3, H0686: 1,		
					Gly-86 to Ser-92.	H0634: 1, L0761: 1,		
						L0772: 1, L0764: 1,		
						L0805: 1, L0786: 1 and		
						L0779: 1.		
HAQAK73 764671	64671	15	449 - 661	2702	Glu-16 to Pro-21,	H0295: 2 and L0748:		
_					Leu-28 to Asp-34,	7.		
-	•				Glu-59 to Ser-56, Glu-59 to Glv-67.			
HAQAM17 6	6264979	16	1 - 198	2703		H0295: 1 and H0435:		
						1.		-
HAQBF84 7	783259	17	2 - 70	2704		H0295: 2		
HAQBJ71 8	839982	18	17 - 367	2705	Ala-55 to Phe-72.	H0295: 3 and H0294:		
		1				11.	•	
HAQBQ50 5	522004	19	3 - 59	2706		H0295: 2		

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																		•				104770,	107670,	110700,	135940,
												_										1421			
H0295: 2, L0649: 1, L0663: 1, H0435: 1 and H0670: 1.	H0294: 2 and H0435:	H0294: 2	H0664: 2	H0663: 1 and S0152: 1.	H0663: 2	H0663: 2, L0758: 2,	L0748: 1 and L0591: 1.	L0749: 2, H0663: 1,	H0662: 1 and L0438: 1.	H0181:2	H0181: 1 and H0617:	1.	H0662: 2, H0181: 2,	L0766: 2, L0455: 1,	L0740: 1, L0779: 1 and	L0362: 1.	H0553: 2, H0181: 2,	L0743: 2, L0639: 1,	L0787: 1, L0790: 1,	L0747: 1, L0780: 1,	L0752: 1 and L0755: 1.	H0181: 2	•		
			Val-17 to Thr-27.		Arg-1 to Trp-15.	Glu-24 to Lys-29,	Lys-35 to Gln-40.	Gly-1 to Gly-6,	Gly-41 to Pro-46.	Asn-37 to Gly-44.	Pro-31 to Glu-36.	•										Val-57 to Leu-66,	Val-79 to Gly-84.		
2707	2708	2709	2710	2711	2712	2713		2714		2715	2716		2717				2718					2719			
159 - 437	3 - 134	209 - 337	228 - 374	15 - 140	138 - 1	3-317		390 - 575		3 - 185	2 - 184		1 - 420				1 - 195	•	•			1 - 324			
20	21	22	23	24	25	56		27		28	29		30				31					32			
847519	529711	968339	957826	963634	922401	182156		930682		525846	957870		922396				524532					954299		_	
HAQBS37 847519	HAUBD69	HAUBU10		HBCPD14		HBCQS90		HBCQS93		HBGBD28	HBGBF56		HBGBG42				HBGBH43					HBGBS07			

145001,	152445,	152445,	159001,	174000,	179755,	182860,	182860,	182860,	191315,	230800,	230800,	266200,	600897,	601105,	601412,	601652,	602491										
			•		_									4							-						
																		H0181: 2	H0617: 2 and H0181:	H0181.2 and H0617.	110011. 2 and 110017.	H0181: 2	H0181: 2	H0181: 1 and H0617:	1.	H0181: 3	L0040: 1, H0188: 1,
				•														Arg-7 to Trp-17.		Glu-1 to Glv-9		Thr-1 to Pro-6.	Pro-6 to Leu-12.			Trp-8 to Gln-20.	Gln-19 to Glu-24,
																		2720	2721	2722		2723	2724	2725		2726	2727
										P-d								109 - 306	52 - 492	31 - 156		163 - 507	1 - 132	122 - 259		2 - 220	. 3 - 302
																		33	34	35	}	36	37	38		39	40
																		525352	954916	524956		525618	524875	971696		974223	954306
					_												\neg		HBGBW60	HBGBW72		HBGDA44	HBGDE85	HBGDS13	_		HBGFA62

							•																						
H0606: 1, L0762: 1,	L0803: 1, L0774: 1 and	L0509: 1.	H0617: 2		H0617: 3	L0764: 2, L0783: 2,	H0182: 1, H0617: 1,	H0616: 1, L0765: 1,	L0375: 1, L0659: 1,	L0809: 1, L0663: 1,	L0731: 1 and L0361: 1.	H0617: 2	AR089: 15, AR061: 10	H0617: 8, L0763: 2,	L0754: 2, H0483: 1 and	L0743: 1.		H0617: 2	H0617: 2, L0758: 2,	H0181: 1, L0521: 1,	L0666: 1 and L0779: 1.				H0617: 3				
Arg-29 to Pro-35,	Ser-47 to Ser-56,	Pro-58 to Ser-64.	Thr-1 to Ser-6,	Thr-23 to Pro-30.	Leu-36 to Asn-42.	Pro-13 to Ser-19,	Pro-60 to Ala-76,	Asp-78 to Gly-85.				Arg-71 to Arg-76.	Arg-37 to Phe-48,	Asp-55 to Asp-63,	Gly-73 to Ala-80,	Gln-147 to Trp-154,	Val-176 to Lys-191.		Gly-1 to Arg-8,	Gly-17 to Val-25,	Gln-27 to Gln-32,	Ala-56 to Gly-64,	Glu-121 to Thr-129,	Arg-156 to Asp-174.	Gly-3 to Thr-15,	Pro-49 to Ser-54,	Pro-56 to His-63,	Gly-81 to Pro-87,	Pro-92 to Thr-98.
			2728		2729	2730						2731	2732					2733	2734						2735				
			266 - 589		84 - 329	162 - 434						22 - 279	575-3					82 - 162	1 - 522						1 - 330				
			41		42	43						44	45					46	47						48				
			870189		933763	966132						845194	947112					958257	848219						914594				
			HBGMD05 870189		HBGMD62	HBGMF10 966132						HBGMG29	HBGMZ39					HBGNA08	HBGND09						HBGNJ14				

						-																					
H0617: 2	H0181: 1 and H0617:	<u>. </u>		AR054: 129, AR051:	118, AR050: 110	H0617: 4 and L0770:	2		H0617: 2, H0663: 1	and H0181: 1.	H0617: 2, L0439: 2,	L0771: 1, L0766: 1,	L0779: 1 and L0752: 1.			H0617: 2		H0617: 2	L0041: 2, H0617: 2,	L0659: 1, L0438: 1 and	L0601: 1.	H0617: 2		H0617: 2, L0780: 1,	L0752: 1 and L0594: 1.	H0617: 4	H0617: 3
	Glu-14 to Cys-20, Glu-22 to His-32	Asp-39 to Thr-52,	Lys-92 to Asp-101.	Cys-7 to Gly-12,	Ser-19 to Thr-26,	Ala-31 to Leu-36,	Ser-47 to Ser-57,	Glu-75 to Phe-83.	Gly-58 to Pro-69.		Thr-21 to Lys-27,	Cys-33 to Pro-38,	Lys-68 to Trp-103,	Pro-118 to Val-124,	Pro-129 to Lys-137.	Leu-30 to Thr-56,	Arg-61 to Thr-71.					Gly-22 to Ala-31,	Arg-58 to Trp-73.	Leu-14 to Pro-20,	Ser-49 to Ile-55.		Pro-13 to Arg-26.
2736	2737			2738					2739		2740					2741		2742	2743			2744		2745		2746	2747
12 - 197	2 - 358			2 - 268					24 - 263		10 - 420					195 - 599		3 - 278	1 - 369			1-219		158 - 340		14 - 274	2 - 205
49	20			51					52		53					54		55	99			57		58		65	09
912730	952212			887152					968696		883111					967261		848156	958290			926876		918513		973425	930706
HBGNM13 912730	HBGNO07			HBGNQ31					HBGNW29		HBGOB07					HBGOJ28		HBGOK53	HBGOL08			HBGPE04		HBGPH02		HBGPK33	HBGPV05

																			191170, 191170							
																			17p13.1							
H0181: 1 and H0617:	1.	L0777: 3, H0617: 2,	L0731: 2, H0606: 1,	L0769: 1, L0803: 1,	L0743: 1, L0744: 1,	L0750: 1 and L0779: 1.			H0617: 3	L0794: 3, H0617: 2,	L0750: 1 and L0758: 1.	AR051: 23, AR050:	17, AR054: 16	H0617: 4					H0253: 1 and H0188: 1.	H0618: 1 and H0188:	H0188: 2	H0188: 2		H0188: 2	H0188: 2	H0188: 2 and L0603:
Met-3 to Asn-8,	Ala-11 to Pro-39.	Arg-4 to His-10,	Pro-14 to Thr-20,	Glu-28 to Arg-35,	Thr-40 to Ser-56,	Thr-61 to Ser-75,	Pro-93 to Arg-102,	Asp-118 to Arg-124.	Pro-70 to Arg-78.	Pro-28 to Trp-34.		Asp-43 to Arg-49,	Glu-55 to Asp-64,	Glu-75 to Arg-81,	Leu-89 to Gly-98,	Leu-110 to Lys-115,	Asn-131 to Thr-141,	Asn-152 to Lys-160.	Ser-8 to Leu-20.		•	Asn-3 to Ser-15,	Lys-21 to Asn-30.	Gly-21 to Pro-27.		Leu-14 to Thr-20.
2748		2749							2750	2751		2752							2753	2754	2755	2756		2757	2758	2759.
1 - 309		3 - 413							1 - 273	13 - 561		3 - 581							1 - 138	86 - 271	1 - 231	123 - 302		2 - 226	1 - 87	245 - 400
61		62							63	64		92							. 99	<i>L</i> 9	89	69		70	71	72
954302		923142							965509	914573		886529				_		1	966536	008099	655514	655842		524954	530843	558193
HBGQG66 954302		HBGSD40							HBGTK11	HBGTL01		HBGTR84								HBNAF14	HBNAI71	HBNAN41		HBNAW92	HBNAX71	HBNAY58

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					1.2-q13.2 123620,	138720,	145410,	188826,	231950,	239500,	275350,	058009														
-					90: 1.22q1								53:		2				and				_			4,
H0188: 2	S0188: 2	S0190: 2	S0190: 2	S0190: 2	H0059: 1 and S0190: 1.22q11.2-q13.2 123620,								H0661: 1 and H0553:	H0661: 2	T 0770: 3 T 0776: 3	H0686: 1, H0661: 1,	L0021: 1, L0761: 1,	L0766: 1, L0659: 1,	L0647: 1, L0752: 1	L0605: 1.	H0661: 2	S0398: 2	S0398: 2	S0398: 2) 4	L0758: 13, H0253: 4,
Gln-48 to Pro-56.	Phe-13 to Phe-18,	Ser-1 to Ser-11.	Thr-29 to Arg-34.		Val-3 to Lys-9.								Ser-1 to Met-6.		I ye-28 to Phe-34	_					Lys-33 to Arg-38.			Thr-6 to Leu-12,	Tyr-19 to Lys-28.	Ser-10 to Gly-23.
2760	2761	2762	2763	2764	2765								. 2766	2767	2768	3					2769	2770	2771	2772		2773
201 - 380	1 - 330	93 - 212	116 - 301	2 - 352	111 - 383								322 - 119	183 - 521	8-130						2 - 283	3 - 125	2 - 181	22 - 120		2 - 901
73	74	75	76	77	78								79	80	81	5					82	83	84	85		98
524869	692559	625619	760418	655737	664013								914333	768036	951820				•		922351	915613	835781	726339		915239
HBNBT52	HBZAJ09	HBZSH16	HBZSH71	HBZSI73	HBZSK17								HCBMV01	HCBNW02	HCBNW07 951820						HCBOG03	HCDMB01	HCDMB16	HCDMB60		НСДМС01

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							300077,	300500,	300650,	301200,	302350,	302950,	308700,	311200,	312040													
			13				Xp22.3										13											
H0618: 3, H0038: 1,	L0779: 1 and S0398: 1.	S0398: 2	H0483: 2	H0483: 2			H0483: 2							•	H0483: 1 and H0550:	1	H0483: 4 and H0484:	1.	H0484: 2	H0616: 7, L0758: 5,	H0484: 1, H0040: 1,	L0768: 1, L0774: 1 and	L0775: 1.	H0484: 2			H0484: 1 and H0483:	1.
			Lys-29 to Arg-34.	Cys-1 to Pro-10,	Thr-19 to Glu-28,	Arg-36 to Asn-44.	Ser-24 to Gly-29,	Asn-47 to Pro-53,	Pro-74 to Gly-79.						Phe-24 to Gln-30.	Gln-32 to Leu-42.	Asp-1 to Phe-21.			Glu-14 to Ser-21,	Asp-67 to Asp-73.			Leu-26 to Cys-39,	Cys-41 to Lys-50,	Gly-87 to Glu-93.	Glu-11 to Gly-17,	Arg-25 to Ser-36.
		2774	2775	2776			2777								2778		2779		2780	2781				2782			2783	
		2 - 184	78 - 269	3 - 134		-	1 - 366						_		1 - 318		190 - 459		35 - 343	144 - 455				1 - 321			2 - 214	
		87	88	68			06				-				91		92		93	94				95			96	
		642929	923764	675465			715128					•			665184		923763		668518	880585				740102			954866	
		HCDMD23	HCHAD40	HCHAR16			HCHAR43								HCHAR67		нснво03			HCHND96				HCHOA76			нснор89	

				,	+		-								-												
H0484: 1 and H0483:	H0484: 2, L0803: 1	alla L0730: 1:			AR089: 42, AR061: 34	H0651: 154, L0731: 9,	L0777: 6, L0803: 4,	L0775: 3, H0196: 2,	H0163: 2, L0662: 2,	L0805: 2, L0783: 2,	L0438: 2, L0740: 2,	L0759: 2, H0170: 1,	S0444: 1, H0592: 1,	H0632: 1, L0471: 1,	H0399: 1, H0615: 1,	H0040: 1, S0294: 1,	H0647: 1, L0598: 1,	L0763: 1, L0638: 1,	L0637: 1, L0642: 1,	L0374: 1, L0767: 1,	L0768: 1, L0794: 1,	L0804: 1, L0774: 1,	L0375: 1, L0776: 1,	L0606: 1, L0659: 1,	L0809: 1, L0647: 1,	L0789: 1, L0791: 1,	L0666: 1, L0663: 1,
Gly-1 to Gly-14.	Pro-13 to Gly-20,	Ser-66 to Ala-72.	Phe-74 to Trp-87,	Pro-102 to Arg-107.	Ala-2 to Lys-10,	Glu-70 to Gln-76.																					
2784	2785				2786																						
1 - 129	3 - 455				522 - 896																						
26	86				66																						
717671	934941				927904																						
HCHPO55 717671	нсновое				HCMSE07																						

				Γ						T									
										103050.	103050,	124030,	124030,	138981,	182380,	188826,	190040,	190040,	190040
							•	•		22q13.1-q13.2 103050.	•			•					
L0664: 1, L0665: 1, H0659: 1, H0658: 1, H0672: 1, S0328: 1, H0539: 1, S0380: 1, L0439: 1, L0779: 1, L0594: 1, L0361: 1, S0026: 1, S0242: 1 and S0460: 1.	L0768: 2, H0150: 1 and H0670: 1.	H0670: 2	H0670: 2	H0670: 2	H0059: 1, L0803: 1	and H0670: 1.				AR089: 15, AR061: 5	•	L0756: 1 and L0759: 1.							
	Arg-1 to Pro-10, Ile-21 to Gly-34.	Tyr-10 to Cys-17.	Ser-40 to Gly-45, Pro-55 to Asp-67.		Val-19 to Trp-24,	Lys-70 to Lys-78,	Ser-83 to Leu-100,	Val-112 to Trp-117,	Thr-119 to Lys-125, Cys-133 to Pro-143.	Asp-43 to Glu-48.									
	2787	2788	2789	2790	2791		-			2792									
	120 - 296	68 - 3	75 - 458	83 - 283	1 - 471					89 - 592									
	100	101	102	103	104					105								•	
	932878	925748	951665	191696	961595					902396		_							
	HCOMZ41	HC000504		HC00M77	HCOOX10 961595					HCOOZ11									

																-													
H0169: 2, L0809: 1,	H0670: 1 and L0599: 1.	H0670: 4, L0776: 2,	L0666: 2, L0759: 2,	H0661: 1, L0717: 1,	L0664: 1, L0779: 1,	L0777: 1, L0752: 1 and	L0755: 1.	H0670: 2 and L0366:	-	H0670: 2	H0683: 122, L0740: 6,	L0747: 5, L0438: 4,	L0439: 4, L0756: 3,	H0156: 2, L0521: 2,	H0658: 2, L0754: 2,	L0750: 2, L0779: 2,	L0777: 2, L0731: 2,	L0759: 2, H0171: 1,	H0486: 1, H0244: 1,	H0427: 1, H0310: 1,	H0052: 1, H0263: 1,	H0596: 1, L0163: 1,	H0051: 1, H0328: 1,	S0112: 1, L0768: 1,	L0803: 1, L0774: 1,	L0527: 1, L0517: 1,	L0783: 1, L0666: 1,	L0663: 1, H0670: 1,	H0648: 1, S0152: 1,
Gly-11 to Ser-16.		Gln-20 to Tyr-25,	Asp-73 to Ser-79.					Ala-52 to Lys-58,	Gly-72 to Arg-79.		Glu-40 to Asn-46.																		
2793		2794						2795		2796	2797																		
259 - 585		409 - 684						292 - 564		187 - 429	1335 - 1553																		
106		107						108		109	110									•									
954332		965299			_			969151		951658	961388																		
HCOPP18		HCOQE11						нсоон12		_	HE8SG46																		

S0146: 1, H0478: 1,	L0752: 1, L0758: 1 and	S0412: 1.	AR061: 8, AR089: 5	H0038: 4, H0616: 3,	L0747: 3, L0663: 2,	L0758: 2, H0369: 1,	H0428: 1, L0769: 1,	L0542: 1, L0809: 1,	L0666: 1, L0665: 1,	L0743: 1, L0777: 1,	L0731: 1 and S0456: 1.	H0369: 2	H0369: 2 and H0664:	1.	H0369: 2	H0369: 1 and H0040:	1.	H0369: 2	H0369: 2	L0748: 3, H0369: 1	and H0031: 1.	H0369: 2	H0369: 2	H0369: 2 and L0747:		H0534: 4 and H0533:	3.	H0549: 2
												Glu-7 to Arg-24.	His-33 to Val-39.							Phe-71 to Gln-78,	Lys-87 to His-95.	Gly-12 to Ile-18.		Asp-25 to Glu-30,	Leu-39 to Val-48.	Ser-5 to Tyr-19,	Arg-22 to Thr-32.	Glu-21 to Lys-30,
			2798									2799	2800		2801	2802		2803	2804	2805		2806	2807	2808		2809		2810
			3 - 272									1 - 360	69 - 188		114 - 221	2 - 154		78 - 227	168 - 401	114 - 488		121 - 471	96 - 536	219 - 449		1 - 147		1-159
			111									112	113		114	115		116	117	118		119	120	121		122		123
			963100	_								574510	574232		574008	960579		932383	653242	531348		733632	968200	574508		752875		741305
			HEAAA42									HEAAB77	HEAAK46			HEAAM52		HEAAN18		HEAAT36		HEAAT60	HEAAV10	HEAAV33		HEDAE67		HEEAD64

	H0549: 2	H0549: 2			AR054: 10, AR051: 9,	H0549: 2	H0549: 2	H0549: 2	H0369: 2 and H0549:	2.	H0549: 2	H0549: 2	H0549: 2 and L0600:		H0549: 2	H0549: 2	H0550: 2		H0550: 2	AR089: 13, AR061: 8	H0618: 2 and H0550:	1.	H0550: 2 and L0750:	H0550: 1 and H0328:	H0550: 1, H0644: 1
Gly-33 to Ser-39.	Pro-44 to Phe-50.	Lys-25 to Gly-34,	Pro-42 to Trp-57,	Lys-71 to Asp-82.			Gly-24 to Leu-30.	Glu-12 to Gln-19.	Val-19 to Ser-25,	Arg-39 to Ser-60.		Ala-76 to Gly-84.	Ala-17 to Gly-30,	Arg-39 to Trp-46.	Lys-12 to Trp-17.	Phe-27 to Trp-32.	Gly-1 to Glu-10,	Gly-41 to Val-47.	Ser-52 to Trp-58.	Ile-30 to Gly-36,	Thr-67 to Thr-72.		Ser-48 to Lys-54.		Ala-51 to Glu-60,
	2811	2812			2813		2814	2815	2816		2817	2818	2819		2820	2821	2822	•	2823	2824			2825	2826	2827
	1 - 150	246 - 1			3 - 332		140 - 253	167 - 283	3 - 203		1 - 147	3 - 278	1 - 228		55 - 195	28 - 168	1 - 204		150 - 425	1 - 351			281 - 475	113 - 355	1 - 330
	124	125			126		127	128	129		130	131	132		133	134	135		136	137			138	139	140
	851219	785121	-		887321		673904	780838	887312		676721	735620	706935		851213	62939	676716		767284	823900			754344	965183	955291
	HEEAH07	HEEAJ58			HEEAJ76		HEEAK22	HEEAK84	HEEAL31		HEEAN24	HEEAS58	HEEAU79		HEEAW01	HEEAW13	HEGAA24		HEGAA73	HEGAB84			HEGAC69	HEGAC95	HEGAI82

and L0659: 1.	AR054: 16, AR051: 5, AR050: 3	H0550: 2 and L0749:	AR089: 9, AR061: 7 H0550: 1 and H0253:	1.	L0754: 4, L0776: 2,	L0743: 2, L0750: 2,	L0779: 2, H0550: 1,	L0769: 1 and H0658: 1.	H0550: 2					H0550: 2	H0550: 1, H0212: 1,	L0745: 1 and L0746: 1.	H0550: 2			H0550: 2		AR050: 66, AR054:	55, AR051: 37, AR089:	11, AR061: 6	H0549: 1 and H0550:	1.
Pro-88 to Ser-104.	Ala-29 to Lys-51, Arg-69 to His-75.	,	Lys-1 to Ser-52.		Asn-4 to Asn-10,	Gly-14 to Asp-21,	Leu-26 to Gly-39.		Gly-1 to Gly-10,	Glu-46 to Ser-52,	Pro-61 to Pro-67,	Arg-69 to Asp-75,	Ser-82 to Ser-87.	Tyr-36 to Thr-41.	Val-1 to Leu-6,	Arg-13 to Phe-18.	Leu-22 to Ser-28,	Lys-36 to Lys-43,	His-56 to Pro-65.	His-32 to Trp-37,	Pro-39 to Thr-53.	Leu-45 to Lys-50,	Gln-55 to Glu-74,	Thr-114 to Ile-119.		
	2828		2829		2830				2831					2832	2833	•	2834			2835		2836				
	54 - 305		3 - 326		3 - 254				59 - 319					117 - 239	462 - 644		1 - 195			1 - 204		12 - 560				
	141		142		143				144					145	146		147			148		149				
	887299		780837		934705	•			697419					706951	719387		906669			726316		950033				
	HEGAK04		HEGAO83		HEGAP06				HEGAP31					HEGAP36	HEGAR53		HEGAY32			HEGAY52	T	HEGAZ61				

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		155555,	227650, 253000,	007700		120215, 120215, 190198						147200,	178640, 216900		
		16q24.3				9q34.2-q34.3						2p12			
H0150: 2	H0150: 2	AR050: 154, AR051: 146, AR054: 141	H0150: 3	H0150: 2	H0150: 3 and L0763: 1.	H0150: 2	H0150: 2		H0549: 1, H0150: 1,	H0150: 2	L0758: 3, H0150: 2,			H0150: 2	H0150: 2, L0369: 1
Ala-6 to Gln-12.	Ser-7 to Asp-20, Thr-30 to Phe-41, Gly-55 to Gly-61.	Ala-20 to Gln-36, Pro-38 to Asn-50.			Ile-14 to Leu-22.	His-1 to Thr-9.	Asn-1 to Lys-7,	Leu-27 to His-32, Arg-34 to Pro-50.	Pro-4 to Arg-13, Val-34 to Asp-40.	Ser-9 to Leu-20, Thr38 to Thr44	Leu-13 to Lys-21.				
2837	2838	2839		2840	2841	2842	2843		2844	2845	2846	2847		2848	2849
91 - 204	90 - 353	3 - 176		132 - 257	3 - 113	1 - 75	73 - 309	T 1	284 - 583	2 - 154	250 - 360	3 - 167		105 - 284	3 - 260
150	151	152		153	154	155	156		157	158	159	160		161	162
509456	557149	888726		509002	509452	586843	518331		925146	902805	508694	926914		968771	884083
HEPAA44	HEPAB70	HEPAD09		HEPAD40	HEPAD82	HEPAJ70	HEPAK01		HEPAK41	HEPAM29	HEPAN19	HEPAP02		HEPAP12	HEPAS44

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and L0532: 1.	AR061: 44, AR089: 13 H0150: 10, H0549: 5, H0176: 1, L0790: 1 and	H0150: 3	H0150: 4	H0150: 2	H0150: 2 and L0717:	110150 0 10000 1	L0731: 1 and L0758: 1.	H0150: 2	H0150: 3	H0150: 5	H0150: 2	AR050: 7, AR054: 1	H0150: 3	H0150: 2	H0549: 2 and H0150:	2.	H0150: 2 and H0165:	H0150: 2	H0150: 2	AR051: 15, AR054: 2,	AR050: 0	H0150: 4, H0038: 3,	L0758: 3 and L0779: 2.
	His-1 to Met-10.				Asp-15 to Gly-21, Gln-32 to I we-45	Cl. 7 to Cl. 10	Glu-/ to Gln-12.				Pro-4 to Ser-12.	His-25 to Ile-31.		Ala-1 to Asp-7.	Pro-12 to Gly-22.		Asp-18 to Thr-28.			Ser-20 to Lys-30,	Ala-43 to Ser-48,	Ser-65 to Thr-72,	Thr-112 to Thr-118,
	2850	2851	2852	2853	2854	3300	7033	2856	2857	2858	2859	2860		2861	2862		2863	2864	2865	2866			
	3 - 518	42 - 179	72 - 323	4 - 204	92 - 26	171 200	067 - 1/1	99 - 257	193 - 312	112 - 216	91 - 291	272 - 460		123 - 296	.2 - 445		37 - 297	2 - 121	19 - 117	227 - 685		****	
	163	164	165	166	167	160	100	169	170	171	172	173		174	175		176	177	178	179			
	919875	508684	855597	126196	208686	267903	C/000C	707524	969805	269888	713836	888693		968665	715685		523670	529343	761094	947081			
	нерваз9	HEPBB24	HEPBB60	HEPBG26	HEPBG35	urppuse	07110 17111	HEPBH38	HEPBH45	HEPBO69	HEPBQ47	нерво69		HEPBS10	HEPBX43		HEPCD36	HEPCE25	HEPCO59	HEPCT32			

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					108962,	120940,	217050,	21/050,	245050	600837	600946	600946,	600946				
					5p13				·· .					4			
	AR051: 9, AR054: 8, AR050: 1, AR061: 0, AR089: 0 H0150: 2 H0270: 1	H0032: 1, H0212: 1 and L0779: 1.		AR089: 1, AR061: 0 H0544: 1 and H0435: 1.	H0544: 1 and H0038:									H0544: 2		H0544: 2 and L0748:	H0544: 1 and H0038:
Ala-139 to Arg-147.	Arg-57 to Arg-64, Arg-106 to Arg-116, Gln-128 to Pro-135.		Arg-57 to Arg-64, Arg-106 to Arg-116, Gln-128 to Pro-135.	Pro-11 to Gly-16, Gln-37 to Gln-43.						•				Ser-3 to Phe-65, Glu-78 to Ala-91.	Ala-95 to Ser-116.		Pro-1 to Glu-15, Pro-29 to Val-35.
	2867		5339	2868	2869									2870		2871	2872
	448 - 975		345 - 872	2 - 160	1 - 186									86 - 436		10 - 180	80 - 529
	180		2652	181	182									183		184	185
	931824		946975	911438	069669									769973		727051	712243
	HEPCU32			HEQAE65	HEQAH70	_								HEQAO76		HEQAZ52	HEQBA41

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H0046: 2	H0046: 3	H0046: 2 and L0748:	H0046: 2	H0046: 3				H0046: 6	H0046: 4	H0046: 2	H0046: 2	H0046: 4	H0046: 3	H0046: 5		H0046: 3		H0046: 3	H0046: 58 and H0616:	1.	H0046: 1 and S0004: 1.	H0046: 2	H0046: 2	H0046: 3		H0046: 2 and L0741:
Asn-13 to Cys-19.	Pro-22 to Gln-32.	Lys-1 to Val-24, Val-27 to Leu-32.		Asn-1 to Gly-13,	Val-23 to Ser-28,	Ala-52 to Thr-63,	Asp-75 to Thr-80.	Lys-14 to Pro-22.		Ser-20 to Pro-25.			Gln-15 to Ser-21.	Pro-13 to Gln-22,	Arg-24 to Cys-30, Thr-35 to Lys-40.	Ile-18 to Gln-23,	Ser-36 to Ser-41.				Arg-35 to Glu-40.			Asp-11 to Gln-18,	Pro-38 to Ser-43.	Phe-1 to Ser-6,
2873	2874	2875	2876	2877				2878	2879	2880	2881	2882	2883	2884		2885	•	2886	2887		2888	2889	2890	2891		2892
3 - 89	61 - 273	63 - 362	3 - 248	1 - 348				161 - 364	128 - 226	3 - 164	3 - 290	2 - 202	162 - 305	17 - 136		2-313		1 - 162	634 - 801		156 - 275	33 - 203	1 - 138	81 - 257		3 - 311
186	187	188	189	190				191	192	193	194	195	196	197		198		199	200		201	202	203	204		205
509311	509308	509306	509300	942612				799665	535390	508994	518156	535359	509118	960392		68839		934444	918730		536192	509189	508655	720853		209099
HETAD29	HETAF20	HETAF49	HETAF89	HETAH16				HETAH66	HETAH67	HETAJ26	HETAK75	HETAN20	HETAP59	HETAP94		HETAR06		HETAR60	HETAT83		HETAZ13	HETBA01	HETBF45	HETBH48		HETBR25

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																							123620,	138720,	145410,	231950,	239500,	275350,	600850
																							22q11.2						
1.		H0046: 2	•	H0046: 5, L0748: 2	and L0527: 1.	H0046: 3 and L0748:	1.	H0046: 68, S0013: 2,	H0369: 1, H0431: 1,	H0013: 1, H0156: 1 and	S0014: 1.					H0046: 2	H0046: 2	H0046: 2 and H0648:	1.	H0046: 3	H0046: 1 and H0615:	1.	H0046: 3 and L0617:	<u></u>		•			
Arg-26 to Lys-31,	Arg-54 to Ser-59.	Thr-3 to Thr-9,	Ala-24 to Cys-29.			Gly-20 to Gly-27.		Asn-1 to Ile-20,	Tyr-29 to Lys-41,	Thr-68 to Gln-74,	Asp-88 to Tyr-101,	Lys-108 to Cys-116,	Thr-136 to Thr-145,	Thr-158 to Cys-171,	Ser-183 to Pro-188.		Ala-32 to Pro-57.	Thr-56 to Pro-62,	Asp-76 to Gly-81.	His-3 to Asn-10.	Lys-25 to Asn-35.		Tyr-1 to Ala-9.						
		2893		2894		2895		2896								2897	2898	2899		2900	2901		2902						
		3 - 125		354 - 647		143 - 307		542 - 1249								121 - 204	31 - 201	119 - 361		149 - 283	107 - 364		54 - 398						
		206		207		208		209								210	211	212		213	214		215						
	-	523046		971505		999809		841924			-					921390	522829	525412		509110	883018		855509						
	•	HETBW39		HETCE12		HETCE55		HETCG63								HETCH92	HETCL55	HETDA81		HETDD18	HETDE67		HETDE86						

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									300123,	301201,	301845,	301900,	304340,	307150,	307700,	308000,	308000,	309000,	310490.	313850				
	٠								Xq26.1															
H0046: 10 and S0152: 1.	H0046: 2	H0046: 2	H0046: 2	H0031: 2 and H0046: 1.	H0046: 2 and L0756: 1.	H0046: 2	H0046: 9	H0046: 5	H0046: 2												H0046: 3		110046 6 11 0006	HUU46: 5 and LU665: 1.
	Asn-1 to Arg-14.		Leu-1 to Ser-6.				His-7 to Thr-22.	Arg-1 to Ile-29.	Asn-8 to Trp-15,	Leu-20 to Ser-32.											Asn-1 to Asp-10,	Asp-25 to Gly-30, Asp-45 to Asp-56	100 000 000 000	
2903	2904	2905	2906	2907	2908	2909	2910	2911	2912												2913		100	2914
446 - 652	1 - 159	146 - 274	131 - 235	116 - 295	191 - 397	180 - 281	39 - 248	1 - 273	189 - 359												195 - 476		1 543	1 - 543
216	217	218	219	220	221	222	223	224	225												226		200	177
028096	925489	066805	695021	525407	660714	827093	917400	952297	529591												523112		2000	8096/
HETDG67 960870	HETDI03	HETDL92	HETDN90	HETDP21	HETDT15	HETDW59	HETEB68	HETEQ16													HETFA40		TITITION	HEIFC82

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H0046: 14	H0046: 3, H0618: 1, H0038: 1 and H0616: 1.		H0046: 53, H0616: 1	and 10004. 1.									H0046: 2	H0046: 2	.H0046: 9			H0046: 2	H0046: 2	H0046: 2 and L0771:	1.	AR050: 47, AR051:	46, AR054: 39, AR089:	4, AR061: 2	H0046: 4
	Ala-22 to Tyr-27, Val-58 to Arg-75,	Ala-82 to Gly-88, Pro-97 to Gln-102, Val-109 to Asp-117.	Arg-1 to Lys-6,	Leu-17 to Leu-24,	Gln-26 to Gln-46,	Ala-58 to Gln-63,	Gln-68 to Leu-74,	Lys-82 to Arg-95,	Glu-101 to Pro-107,	Leu-139 to Lys-147,	Glu-176 to Leu-186,	Arg-208 to Ile-215.		Gln-42 to Gly-48.	Lys-6 to His-12,	Gly-20 to Gly-40,	Gly-55 to Glu-69.	Asn-9 to Gly-17.	Gly-6 to Asn-21.						
2915	2916		2917										2918	2919	2920			2921	2922	2923		2924			
283 - 510	275 - 643		430 - 1149										66 - 239	208 - 405	88 - 339			2 - 127	1 - 63	2 - 154		3 - 581			
228	229		230										231	232	233			234	235	236		237			
974351	795274		954104										523398	973697	973702			527929	505383	523372		947978			
HETFE48	HETFG29		HETFI24									_	HETFI81	HETFL39	HETFM43			HETGH30	HETGI40	HETGL62		HETGL74			

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H0046: 2 and L0519:	H0046: 2	H0046: 2	H0046: 9				H0046: 4	H0046: 4	H0046: 1, H0032: 1	and L0740: 1.	H0046: 5	AR089: 1, AR061: 0	H0046: 2			H0046: 3	H0046: 3	H0046: 3	H0046: 14		H0046: 2	H0046: 2	H0046: 3	H0046: 2	H0046: 18	H0046: 5 and L0766:	1.
	Pro-4 to Lys-11.		Arg-1 to Pro-7,	Pro-13 to Ser-18,	Ala-51 to Ser-64,	Asn-92 to Lys-97.					Ser-12 to Val-20.	Pro-1 to Arg-7,	Thr-18 to Thr-29,	Arg-35 to Ser-50,	His-87 to Cys-92.			Ser-3 to Pro-10.	Ala-60 to Lys-67,	Gln-71 to Gly-76.	Glu-7 to Glu-12.	Ile-3 to His-12.		Arg-16 to Asn-21.	Pro-49 to Thr-57.	Pro-14 to Pro-19,	Cys-35 to Ser-40.
2925	2926	2927	2928				2929	2930	2931		2932	2933				2934	2935	2936	2937		2938	2939	2940	2941	2942	2943	
7 - 567	23 - 190	11 - 109	151 - 441				101 - 259	490 - 639	90 - 428		475 - 660	24 - 461				302 - 439	47 - 223	262 - 411	1 - 363		1 - 135	81 - 245	458 - 646	62 - 166	252 - 503	3 - 215	
238	239	240	241				242	243	244		245	246				247	248	249	250		251	252	253	254	255	256	
927789	542486	969632	935175		•		974348	967737	745503		963592	851412				974555	966185	974359	766589		166£88	764951	739804	935947	974558	909130	
HETGN20 927789	HETGQ76	HETGS09	HETHD30				HETHES6	HETHH49	HETHO63		HETHO78	HETHR24				HETHT53	HETIF01	HETIG71	HETIJ84		HETIJ85	HETIQ89	HETIU60	HETIY84	HETJD30	HETJD86	

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AR061: 4, AR089: 2	H0046: 2 and H0616:	L0375: 3, H0046: 2,	L0774: 1 and L0789: 1.	H0046: 2	H0046: 2	H0046: 3	AR089: 4, AR061: 2	H0046: 1, H0032: 1,	H0040: 1 and L0565: 1.				H0046: 4 and L0774:	Ι.	H0046: 3 and H0616:	-		H0046: 11	H0046: 3	H0046: 2			H0046: 17		H0046: 3		
Val-10 to Asp-15.				Ser-1 to Thr-7.		Lys-8 to Thr-23.	Asp-11 to Val-21,	Pro-27 to Thr-43,	Trp-92 to Lys-97,	Pro-136 to Gly-149,	Met-182 to Val-193,	Thr-197 to Asn-203.			Val-50 to Arg-63,	Asp-75 to Trp-89,	Pro-92 to Arg-98.			Pro-1 to Gly-14,	Gly-17 to Ser-23,	Ser-25 to Arg-34.	Ser-12 to Arg-18,	Gln-69 to Met-74.	Leu-33 to His-38,	Pro-56 to Glu-61,	Pro-111 to Leu-117.
2944		2945		2946	2947	2948	2949						2950		2951			2952	2953	2954			2955		2956		
94 - 462		262 - 552		173 - 433	26 - 274	222 - 413	3 - 704		•				254 - 481		3 - 308			321 - 527	20 - 226	1 - 210			31 - 267		3 - 353		
257		258		259	260	261	262						263		264			265	566	267			268		569		
950017		806435		751072	767932	789310	927120						966194		894600			974355	915320	790910			974362		855449		
HETJG63 950017		HETJI32		HETJK67	HETJN51	HETJT95	HETJX04						HETJY11		HETKA38			HETKG67	HETKH01	HETKH92		-	HETKM55		HETKQ65		

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AR061: 1, AR089: 0	H0046: 2	H0046: 2	H0046: 2	H0046: 6 and H0616:	1.	H0046: 2	H0046: 3			H0545: 2	H0545: 2	H0545: 2, L0766: 1,	L0775: 1, L0383: 1,	L0742: 1 and L0747: 1.	H0618: 6, L0758: 3,	H0484: 1, H0255: 1,	H0549: 1, H0253: 1,	H0616: 1, L0794: 1,	L0774: 1 and L0779: 1.	H0553: 2	H0553: 2, L0441: 1	and H0672: 1.	L0754: 20, L0748: 10,	L0749: 10, H0553: 8,	L0755: 8, H0031: 7,	H0644: 6, H0030: 2,	L0142: 1, L0771: 1,	L0759: 1 and H0008: 1.
Asp-12 to Trp-20.		Leu-22 to Arg-28.	Gln-1 to Glu-20.	Glu-1 to Gly-6,	Val-21 to Asp-27.	Cys-22 to Asp-27.	His-1 to Leu-8,	Lys-10 to Leu-17,	Met-44 to Cys-49.			Asp-53 to Gln-59,	Asp-122 to Leu-128.		Arg-11 to Ser-19.					Tyr-23 to Ser-30.	Asn-34 to Leu-40.		Ser-84 to Ile-92,	Glu-104 to Gly-111.				
2957		2958	2959	2960		2961	2962			2963	2964	2965			2966					2967	2968		5968					
2 - 664		150 - 254	3 - 620	518 - 1333		2-250	111 - 314			3 - 305	39 - 335	610 - 155			103 - 252					167 - 367	146 - 295		686 - 885					
270		271	272	273		274	275			276	277	278			279					280	281		282					
910030		789797	941045	920894		786458	974361			957079	919847	858254			675752					856552	958554		964389					
HETKV26 910030		HETKX91	HETKZ65	HETLB04		HETLH89	HETLM46			HJMAE34	HJMAZ84	HJMBT23			HLMNG77 675752					HLWAB50	HLWAD08		HLWAG51					

AR061: 2, AR089: 2 L0748: 6, L0752: 5, H0553: 2, L0754: 2, L0749: 1 and L0780: 1.		L0754: 2, H0553: 1, H0670: 1 and L0749: 1.	H0553: 2	H0553: 1, H0435: 1 and L0748: 1.	H0553: 2, L0536: 2, L0754: 2 and H0030: 1.	AR050: 21, AR054: 9,		AR061: 1	H0553: 4 and L0759:	2.	•		H0553: 2, H0030: 1	and L0755: 1.		H0553: 2	H0553: 2	H0553: 2, L0005: 1, L0143: 1, L0749: 1 and
Arg-9 to Val-17, Pro-25 to Gly-30.	Gly-1 to Ser-6, Phe-12 to Trp-25, Ala-31 to Gly-42, Met-44 to Gln-49.			Asn-12 to Ala-18, Gly-61 to Ser-70.		Gln-97 to Pro-114,	Trp-117 to Lys-129,	Thr-166 to Gln-173,	Ser-178 to Lys-183,	Glu-250 to Phe-256,	Ser-295 to His-301,	Tyr-307 to Gln-316, Glu-322 to Ser-330.	Ser-20 to Gly-27,	Gln-29 to Arg-41,	Ser-46 to Pro-53.	Arg-112 to Ser-117.		Lys-28 to Arg-39.
2970	5340	2971	2972	2973	2974	2975							2976			2977	2978	2979
13 - 771	687 - 286	158 - 376	381 - 145	118 - 333	330 - 175	1287 - 292							430 - 2			4 - 390	192 - 350	1 - 192
283	2653	284	285	286	287	288							289			290	291	292
944774	948953	920690	746460	694216	715727	947484							723330			666273	962996	677944
HLWAH41 944774		HLWAI13	HLWAJ64	HLWAK69	HLWAK94	HLWAR77							HLWAR78			HLWAU18	HLWBA11	HLWBA25

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L0755: 1.	H0553: 2			H0030: 1 and H0553:			H0553: 2	H0553: 3	L0748: 14, H0553: 4,	L0754: 4, H0644: 3,	H0031: 2, L0005: 1,	L0774: 1, S0454: 1,	L0749: 1 and L0780: 1.	H0328: 2 and H0553:		AR089: 1, AR061: 0	H0553: 2	H0553: 3	H0328: 1 and H0553:	1.	H0553: 2	H0030: 1, H0553: 1 and L0754: 1.	H0031: 2, L0754: 2,	H0553: 1, L0743: 1,	L0748: 1 and L0747: 1.		
	Val-2 to Pro-8,	Arg-21 to Trp-29,	Thr-41 to Arg-50.	Leu-6 to Gln-11,	Arg-46 to Asp-52,	Glu-68 to Pro-73.	Ala-3 to Trp-10.		Arg-11 to His-20,	Pro-23 to Gly-31.	•			Gly-1 to Glu-6,	Val-8 to Tyr-16.	Lys-1 to Lys-41,	Pro-75 to Ser-86.	Met-36 to Lys-41.	Ala-37 to Glu-48.		Glu-57 to Gly-66.	Asn-7 to Cys-15.	Pro-26 to Ser-39,	Ile-66 to Ser-78,	Lys-84 to Pro-105,	Pro-171 to Pro-181,	Arg-194 to Ala-199.
	2980			2981			2982	2983	2984					2985		2986		2987	2988		2989	2990	2991				
	1 - 150			252 - 1			08£ - 06	78 - 224	847 - 1062					119 - 199		3 - 263		109 - 279	272 - 48		2 - 268	184 - 2	114 - 848				
	293		•	294			295	296	297			•		298		299		300	301		302	303	304			•	
	934562			791362			919639	711000	713600					529323		782938		703465	925300		774175	679215	577929				
	HLWBE31			HLWBE92			HLWBJ02	HLWBK40	HLWBN49	-				HLWBO68		HLWBQ84		HLWBQ86	HLWBS14		HLWBS43	HLWBZ74	HLWCA67				

	116806,	168468, 182280,	190182,	190182,	227646,	201210,	600163, 601154																			
	3p24-p22					•																				
H0553: 2	H0553: 2							H0553: 2			H0553: 2 and L0754:	1	H0615: 3, H0553: 2,	L0756: 2 and L0758: 2.	H0553: 2, L0656: 1,	L0659: 1, L0666: 1,	L0664: 1 and L0748: 1.	H0553: 2		H0553: 2, H0038: 1,	L0764: 1, L0794: 1 and	L0438: 1.			H0553: 2	H0553: 2
Ala-17 to Thr-24.								Gln-16 to Met-21,	Val-25 to Lys-33,	Ala-40 to Arg-46.	Ser-11 to Gly-17.		Pro-10 to Lys-16.					Ile-31 to Ser-40,	Arg-115 to Gly-122.	Ser-21 to Glu-27,	Gln-50 to Pro-59,	Gln-61 to Ser-66,	Thr-68 to Pro-74,	Pro-77 to Gln-84.		Tyr-8 to Arg-14, Asn-40 to His-46,
2992	2993							2994			2995		2996		2997			2998		5667		•			3000	3001
57 - 314	207 - 329							71 - 208			160 - 348		329 - 114		2 - 154			2 - 463		1 - 702			<u>.</u>		3 - 149	148 - 426
305	306							307			308		309		310			311		312					313	314
727699	926850		-					750779			002698		742778		768018			913768		696062					953283	868276
HLWCM44 727699	HLWCM70 926850							HLWCO66			HLWCQ53	\neg	HLWCQ62	$\overline{}$	HLWCQ76			HLWDA01		HLWDB18					HLWDD02	HLWDE60

											и, гг.												-						22q13.1-q13.2 103050,
	H0553: 2	H0553: 2	AR054: 2, AR051: 1,		AR061: 0	H0651: 59, L0751: 5,	L0438: 4, L0774: 3,	L0439: 3, L0748: 2,	L0779: 2, L0752: 2,	L0755: 2, L0595: 2,	H0295: 1, H0009: 1,	T0010: 1, H0553: 1,	H0617: 1, H0163: 1,	H0102: 1, H0494: 1,	L0770: 1, L0662: 1,	L0375: 1, L0806: 1,	L0776: 1, L0657: 1,	L0659: 1, L0792: 1,	L0666: 1, L0663: 1,	L0664: 1, L0665: 1,	L0352: 1, H0648: 1,	L0740: 1, L0749: 1,	L0757: 1, L0361: 1,	L0603: 1 and S0042: 1.	H0553: 2		H0651: 29 and S0212:	1.	H0662: 2, H0670: 1, 22
Val-56 to Thr-62.	Pro-1 to Gly-12.	Thr-18 to Met-25.	Pro-4 to Pro-18,	Gly-81 to Pro-87,	Ala-110 to Ala-118,	Gln-127 to Gly-143,	Arg-168 to Asp-176.	1		_															Phe-20 to Gly-26,	Ser-30 to Ser-37.	Ser-37 to Ala-46,	Cys-77 to Ser-85.	
	3002	3003	3004																						3005		3006		3007
	1 - 51	2 - 157	1 - 558																	-					1 - 402		2 - 289		3-512
	315	316	317																•						318		319		320
	759843	973315	929647																						826488		957804		914428
	HLWDL71	HLWEE76	HLWFG82																	•					HLWFQ04		HMVDU41		HNBTP01

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103050,	124030,	138981,	182380,	188826,	190040	190040,	190040																					
					-																							
L0756: 1 and L0759: 1.								H0662: 2			H0662: 2	H0662: 2	H0662: 2		H0651: 177, L0794: 5,	766: 5, H0657: 3,	526: 2, L0666: 2,	664: 2, L0744: 2,	759: 2, S0212: 1,	360: 1, H0587: 1,	1052: 1, H0050: 1,	1266: 1, H0428: 1,	551: 1, H0412: 1,	475: 1, H0646: 1.	761: 1, L0662: 1,	803: 1, L0805: 1,	L0809: 1, L0665: 1,	052: 1, S0374: 1,
12_								I			H	Ŧ	E			<u> </u>	<u> </u>	크	<u> </u>	80	H	H	H	<u> </u>	<u> </u>	ភ្ន	<u>3</u>	<u>8</u> 0
								Pro-12 to Ser-24,	Thr-42 to Ser-47,	Pro-52 to Trp-59.			Lys-8 to Asn-14,	Lys-48 to Asp-53.														
								3008			600E	3010	3011		3012													
								3 - 194			52 - 339	209 - 472	203 - 412		300 - 115												•	
								321			322	323	324		325													
								965424			965428	933672	951814		589856													
						•		HNBTT79			HNBTX52	HNBUM19	HNBUR07		HNGAO08													

		T				_										T						
		118800,	125660.	125660,	193500,	193500,	193500,	193500,	201460,	205100,	237300,	262000,	600266,	601277		118800,	123660.	125660,	125660,	193500,	193500,	193500,
		2q35							-					_		2q35						
H0690: 1, H0659: 1, H0648: 1, H0521: 1, L0786: 1, L0779: 1, L0777: 1, L0780: 1, L0755: 1, H0543: 1 and S0424: 1.		AR054: 7, AR050: 1, 2q35 AR051: 0	H0678: 47, L0748: 12.	L0754: 7, L0747: 6,	L0755: 5, L0776: 4,	C0740: 4, L0749: 4,	20759: 3, H0553: 2,	L0665: 2, L0779: 2,	S0282: 1, H0057: 1,	H0674: 1, H0616: 1,	H0646: 1, L0770: 1,	_0769: 1, L0646: 1,	.0765: 1, L0773: 1,	50777: 1, L0731: 1 and	L0596: 1.	H0678: 47, L0748: 12, 2q35	.0754: 7, L0747: 6,	.0755: 5, L0776: 4,	.0740: 4, L0749: 4,	.0759: 3, H0553: 2,	.0665: 2, L0779: 2,	S0282: 1, H0057: 1,
	Ile-1 to Asp-7, Asn-39 to Pro-46.			Gly-81 to Ser-88.					<u> </u>	-						Glu-15 to Asp-21,	His-32 to His-45.				-	
	5341	3013														3014						
	81 - 284	340 - 696									•		-			320 - 520						
	2654	326				-										327					-	
	890656	917723														917724						
		HNNNA06									(HNNNA09 917724						

193500,	205100,	237300,	262000,	600266,	601277	118800,	123660,	125660,	125660,	193500,	193500,	193500,	193500,	201460,	205100,	237300,	262000,	600266,	601277									
			•			2q35																						
H0674: 1, H0616: 1,	L0769: 1, L0646: 1,	L0765: 1, L0773: 1,	L0777: 1, L0731: 1 and	L0596: 1.		H0678: 2														H0618: 3, L0758: 3,	L0794: 2, L0748: 2,	L0779: 2, L0755: 2,	L0731: 2, L0770: 1,	H0651: 1 and L0603: 1.	H0651: 8, L0744: 2,	L0598: 1 and L0756: 1.	H0651: 154, L0731: 9,	LU///: 6, LU8U3: 4,
																				Asp-28 to Ala-37,	Arg-49 to Gly-58,	Ala-63 to Asn-69.			Pro-76 to Cys-88.		Ala-2 to Lys-10,	G10-/0 to GID-/6.
·						3015														3016					3017		3018	
						771 - 1019								•						525 - 752					231 - 524		101 - 475	
						328														329					330		331	
						917725									_					933730					898696		927903	
						HNNNA77 917725													_	HNOAS06					HNOAX12		HNOBF57	

										•																			
											-												-,-			-			
L0775: 3, H0196: 2,	H0163: 2, L0662: 2,	L0805: 2, L0783: 2,	L0438: 2, L0740: 2,	L0759: 2, H0170: 1,	S0444: 1, H0592: 1,	H0632: 1, L0471: 1,	H0399: 1, H0615: 1,	H0040: 1, S0294: 1,	H0647: 1, L0598: 1,	L0763: 1, L0638: 1,	L0637: 1, L0642: 1,	L0374: 1, L0767: 1,	L0768: 1, L0794: 1,	L0804: 1, L0774: 1,	L0375: 1, L0776: 1,	L0606: 1, L0659: 1,	L0809: 1, L0647: 1,	L0789: 1, L0791: 1,	L0666: 1, L0663: 1,	L0664: 1, L0665: 1,	H0659: 1, H0658: 1,	H0672: 1, S0328: 1,	H0539: 1, S0380: 1,	L0439: 1, L0779: 1,	L0594: 1, L0361: 1,	S0026: 1, S0242: 1 and	S0460: 1.	H0651: 6	H0651: 3
																													Asn-18 to Lys-23.
																												3019	3020
							-																					3 - 374	46 - 114
																												332	333
																												964933	952611
								•																				HNOCQ04	HNOCT39

								•																			
H0651: 2	H0660: 2			H0660: 2	H0328: 3	H0328: 2 and H0615:	2.	H0328: 2	H0328: 2 and L0534:	H0328: 1 and H0615:	1.	H0328: 2	H0328: 2		L0777: 4, H0328: 2,	L0756: 2 and L0803: 1.	H0328: 2	H0328: 2		H0328: 2	H0328: 2	H0546: 1, H0328: 1,	L0779: 1 and L0361: 1.	H0328: 3		H0328: 2	H0328: 2
	Asp-9 to Lys-20,	Ser-25 to Glu-30,	Fro-5/ to Asn-63.		Gly-42 to His-47.								Pro-10 to Cys-27,	Gln-41 to Arg-48.			Thr-3 to Lys-12.	Arg-15 to Thr-21,	Ser-38 to Glu-44.			Thr-6 to Asp-14.		Gly-2 to Arg-10,	Ile-27 to Pro-33.	Arg-27 to Trp-33.	Cys-14 to Pro-20.
3021	3022			3023	3024	3025	1000	3026	3027	3028	0000	3029	3030		3031		3032	3033		3034	3035	3036		3037		3038	3039
536 - 745	8 - 220			3 - 185	91 - 231	280 - 426	700 07	48 - 230	70 - 300	46 - 321	700 72	/0-210	108 - 311		147 - 398		3 - 161	21 - 158		85 - 300	227 - 328	142 - 297		166 - 303		158 - 331	18 - 116
334	335			336	337	338	666	559	340	341	27.0	347	343		344		345	346		347	348	349		350		351	352
957833	922418			917484	973463	974043	011003	229410	859509	921666	20002	229405	529404		960179		529401	529402		859519	692684	775425		921662		954161	921655
HNOCU05	HOCMU03			HOCPJ03	HODAD73	HODAD95 974043	TIONACIO	HUDAG3/	HODAH32	HODAJ01	TODA 125	-+	HODAK38		HODAK95	_	_	HODAT56	_	HODAV80	HODAW60 692684	HODAW84	$\neg \tau$	HODBC01			HODBE01

																			•									
H0328: 2		H0328: 2	H0328: 2	H0328: 2	H0328: 1, H0059: 1	and L0596: 1.	H0328: 2	H0328: 2		H0328: 1 and H0038:		H0328: 2	H0328: 2	H0328: 2	H0328: 2 and L0749:	2.	H0328: 2		H0328: 2		H0328: 2	H0328: 2	H0328: 2	H0328: 2	H0328: 2		H0328: 2	H0328: 1 and H0615:
Glu-23 to His-30,	Leu-41 to Asp-53.	Lys-13 to Gln-21.	Ser-39 to Arg-45.	Glu-10 to Ala-17.	Ser-22 to Val-41.			Leu-20 to Arg-25,	Ser-47 to Gly-53.	Glu-35 to Ile-40,	Pro-73 to Gln-79.	Glu-1 to Thr-10.	Gln-44 to Thr-51.	Tyr-16 to Thr-22.			Gln-1 to Ser-7,	Arg-15 to Gly-21.	Lys-27 to Leu-32,	Asp-49 to Asp-56.				Leu-1 to Lys-14.	Pro-14 to Ile-20,	Pro-23 to Pro-28.	Arg-1 to Pro-12.	Gly-8 to Thr-22.
3040		3041	3042	3043	3044		3045	3046		3047		3048	3049	3050	3051		3052		3053		3054	3055	3056	3057	3058		3059	3060
3 - 299		1 - 168	2 - 166	59 - 280	71 - 343		1 - 180	2 - 184		2 - 286		1 - 123	20 - 175	39 - 242	1 - 222		87 - 275		1 - 168		2 - 196	162 - 335	3 - 185	122 - 325	127 - 234		15 - 203	313 - 477
353		354	355	326	357		358	359		360		361	362	363	364		365		366		367	368	369	370	371		372	373
927781		859559	678444	529329	761447		967732	529400		932218		529327	967320	932638	529334		859556		573202		573200	573195	507249	529332	954149		917270	869076
HODBH16 927781		HODBO85	HODBT58	HODBU95	HODBV71		HODCA11	HODCA68		HODCD05		НОДСН64	HODCJ11	HODCJ42	HODCL88		HODCM62		НООСО09		HODCO46	HODCO82	HODCP69	HODCR43	HODCT07		$\neg \neg$	HODCU02

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													-														
1.	H0328: 2	H0328: 3	H0328: 2	H0328: 2	H0328: 2	H0328: 1 and H0615:	1.	H0328: 2				H0328: 2 and H0615:		H0328: 2	H0328: 1, H0615: 1	and L0748: 1.	H0038: 2, H0328: 1	and H0616: 1.			H0328: 2	H0328: 1, H0615: 1	and L0748: 1.	H0328: 2	H0328: 1, H0615: 1	and L0758: 1.	H0615: 2 and H0328: 1.
	Arg-5 to Cys-11.	Lys-7 to Glu-12.	Lys-37 to Ser-43.	Pro-49 to His-59.		Glu-21 to Glu-37.		Ala-8 to Ala-13,	Ile-17 to Gln-26,	Phe-52 to Asn-64,	Asp-72 to Lys-77.	Gln-14 to Leu-22,	Lys-25 to Lys-35.				Val-26 to Lys-38,	Lys-47 to Lys-53,	Lys-60 to Leu-65,	Ser-80 to Ile-90.	Leu-16 to Arg-30.				Arg-10 to Arg-17,	Ser-24 to Lys-30.	
	3061	3062	3063	3064	3065	3066		3067				8908		3069	3070		3071				3072	3073		3074	3075		3076
	207 - 323	382 - 591	156 - 284	80 - 280	82 - 273	991 - 99		3 - 305				137 - 277		1 - 240	127 - 468		18 - 329				58 - 147	387 - 566		83 - 286	385 - 615		391 - 660
	374	375	376	377	378	379		380				381		382	383		384				385	386		387	388		389
	524314	973487	960051	575256	829580	933726		529390				529169		937759	806204		742217				523270	780472		859516	859518		975437
	HODCU62	HODCV09	HODCW17	HODCW37	HODCZ20	НОВВВ 10		HODDDD41				HODDE28		HODDF51	HODDG57		норрн52				HODDM21	HODDM25		HODDM78	HODDN40	\neg	HODDN59

		Τ	Π			Γ	Г	П		Π						T				•		Γ		T		
AR054: 28, AR050: 22, AR051: 13	H0328: 1, H0674: 1	H0328: 2	H0615: 2 and H0328:			H0328: 2	H0328: 2	H0328: 2	H0328: 2	H0615: 3	H0615: 3	H0615: 2	H0615: 3		H0615: 2	L0776: 2, L0740: 2,	H0484: 1, H0615: 1,	L0809: 1, L0748: 1,	L0750: 1, L0779: 1 and	L0752: 1.	H0615: 2	H0615: 3	H0615: 3	H0615: 2		H0615: 3
			Tyr-11 to Gln-16,	Ala-24 to Ala-32,	Pro-36 to Ser-41.			Gly-1 to Pro-7.	Leu-9 to Gln-20.				Ile-12 to Thr-20,	Tyr-47 to Gly-57.	Thr-34 to Ser-40.	Gln-3 to Arg-14,	Pro-30 to Thr-36.							Pro-3 to Thr-10,	Ser-38 to Pro-47.	
3077		3078	3079		***	3080	3081	3082	3083	3084	3085	3086	3087		3088	3089					3090	3091	3092	3093		3094
60 - 371		101 - 283	3 - 359			48 - 152	171 - 338	1 - 357	126 - 275	391 - 534	1 - 282	350 - 514	42 - 218		24 - 296	23 - 421					235 - 480	27 - 266	373 - 648	2 - 142		101 - 295
390		391	392			393	394	395	396	397	398	399	400		401	402					403	404	405	406		407
891236		920962	919295			529640	267197	529290	531209	782242	927022	952204	580996		859368	606516					963494	974342	784833	568896		974329
HODDN93		НОББО02	норро21			HODDR13	HODDS67	HODDU70	HODDX35	HODEA90	HODEB04	HODEC76	HODED11		HODED55	HODED87					HODEF10	HODEF87	HODEG86	норен08		HODEH22

													2	: 5,						•									
H0615: 3		H0615: 3	H0615: 3		H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 3	H0615: 2	AR061: 4, AR089:	H0651: 709, L0766: 5,	L0754: 5, L0756: 3,	L0803: 2, L0779: 2,	L0777: 2, L0759: 2,	S0354: 1, H0643: 1,	H0013: 1, H0194: 1,	H0545: 1, H0373: 1,	H0252: 1, H0615: 1,	H0316: 1, H0040: 1,	H0641: 1, H0647: 1,	S0422: 1, L0598: 1,	L0369: 1, L0520: 1,	L0762: 1, L0649: 1,	L0804: 1, L0527: 1,	L0656: 1, H0144: 1,	H0702: 1, H0547: 1,
Ile-9 to Cys-14,	Pro-22 to Gly-27.	Lys-1 to Ser-10.	Ser-25 to Pro-30,	Pro-84 to Glu-92.			Val-9 to Val-15.				Thr-1 to Ser-13.		Phe-28 to Thr-33,	Ile-44 to Thr-54,		Gln-99 to Lys-106.													
3095		3096	3097		3098	3099	3100	3101	3102	3103	3104	3105	3106				-												
66 - 227		511 - 633	363 - 740		45 - 188	312 - 458	1 - 159	69 - 569	115-381	215 - 364	206 - 331	246 - 479	1 - 351																
408		409	410		411	412	413	414	415	416	417	418	419																
859318		841906	208658		859313	772940	930735	926984	965534	784846	808726	859287	789661																
HODEI13		HODEI48	HODEK50		HODEL92	HODEN75		HODEP04	1 1	HODEP86	норе028		HODER91																

H0555: 1, H0436: 1,	S0028: 1, L0746: 1,	L0750: 1, L0780: 1,	L0752: 1 and L0686: 1.	L0753: 3, H0615: 1	and H0683: 1.	H0615: 2	H0615: 2	AR061: 6, AR089: 3	H0615: 5	H0615: 2	H0615: 2		H0615: 2	H0615: 2	H0615: 2 and H0328:		H0615: 2	H0615: 3 and L0367:			H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 2	H0615: 2	
						Val-36 to Gly-42.	Asn-37 to Lys-42.	Met-1 to Arg-6,	Ser-16 to Lys-29.	Pro-19 to Gly-45.	Glu-1 to Lys-7,	Thr-34 to Asn-43.		Gln-36 to Gly-41.	Leu-27 to Ile-33,	Trp-43 to Gln-48.		Ser-9 to Gly-15,	Pro-22 to Lys-27,	Oid-10 Oid-20.	,	Thr-1 to Ser-16.					Arg-46 to Ser-57,	Thr-67 to Cys-78.
				3107		3108	3109	3110		3111	3112		3113	3114	3115		3116	3117		0,,,	3118	3119	3120	3121	3122	3123	3124	
				3 - 278		27 - 191	433 - 639	22 - 159		129 - 524	425 - 667		179 - 382	432 - 677	37 - 207		178 - 336	170 - 397		000	451 - 639	2-217	449 - 634	133 - 270	325 - 465	668 - 691	2 - 301	
				420		421	422	423		424	425		426	427	428		429	430		421	431	432	433	· 434	435	436	437	
				784815		922988	859302	926260		922473	972984		859323	829296	918672		952166	934266		2222	929/33	972810	792979	958371	963516	780531	859338	
				HODES86		HODET03		HODEX10		HODEX31	HODEY08		HODEY13	HODEY80	HODEZ02		HODEZ11	HODFA38		יים התחת סוד	HUDFBUS	HODFB57		HODFD08		HODFD45	HODFE69	

H0615: 2	H0615: 3	H0615: 2	H0328: 1 and H0615:	H0615: 5 and L0665: 2.	H0615: 3	H0615: 2	H0615: 2	H0328: 1 and H0615: 1.	H0615: 3 and H0328:	H0615: 2	H0328: 1, H0615: 1,	L0775: 1, H0648: 1 and L0758: 1.	H0615: 3	H0615: 2	H0615: 2	H0615: 2	H0615: 3	H0615: 2 and L0558:	1.	
	Gln-15 to Ser-23, Gly-30 to Lys-36.	Lys-32 to Ser-37.		Ala-14 to Ser-38.	Ser-7 to Lys-15, Val-17 to Pro-29.	Pro-45 to Cys-51.		(200)	Asp-1 to Asp-7.	Trp-44 to Thr-54.	Tyr-4 to Thr-11,	Thr-15 to Asp-20, Arg-29 to Leu-42.	Tyr-1 to Cys-14, Gln-20 to Ile-47.	Thr-1 to Asn-6.			Thr-1 to Ser-6.	Glu-1 to His-6,	Phe-13 to Pro-23,	rug-27 w 204-27,
3125	3126	3127	3128	3129	3130	3131	3132	3133	3134	3135	3136		3137	3138	3139	3140	3141	3142		
263 - 433	33 - 164	143 - 391	247 - 501	44 - 343	42 - 182	1 - 159	198 - 425	79 - 318	124 - 309	85 - 306	587 - 817		427 - 615	258 - 401	224 - 51	204 - 398	460 - 588	274 - 582		
438	439	440	441	442	443	444	445	446	447	448	449		450	451	452	453	454	455		
782219	915257	783783	859549	974313	974318	918456	859334	921529	859329	859314	921651		918637	934304	915232	918536	934229	806232		
HODFG37	НОБЕН02	HODFH76	HODF101	HODFK18	HODFK94	HODFL91	HODFN19	HODFN42	НОДЕООЗ	HODFO37	HODFP40		НОДЕО02	HODFQ06	HODFT52		HODFU06	HODFU47		

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					89: 3	0766:			0169:			89: 5									0615:				_		
		H0615: 2	H0615: 2	H0615: 3	AR061: 6, AR089:	H0615: 2 and L0766:	1.	H0615: 3	H0615: 2 and H0169:	1.	H0615: 2	AR061: 8, AR089: H0615: 3	H0615: 2		H0615: 2		H0615: 2		H0615: 2	H0615: 2	H0328: 1 and H0615:	1.	H0013: 7	H0615: 3			
Pro-54 to Asp-60,	Pro-62 to Gly-67.										Glu-9 to Gln-21.	Thr-50 to Gln-57.	Ala-8 to Gln-29,	Ser-36 to Gly-44.	His-8 to Gly-18,	Leu-37 to Lys-42.	His-8 to Gly-18,	Gly-26 to Arg-33.			Arg-30 to Asn-35.	A 11 4- Th 20	Arg-11 to 1nr-29.	Ser-2 to Thr-13,	He-16 to Ser-26,	Pro-28 to Gln-36,	Gln-41 to Pro-47.
		3143	3144	3145	3146			3147	3148		3149	3150	3151		3152		3153		3154	3155	3156	2157	7016	3158			
		60 - 134	370 - 603	1 - 183	163 - 309			393 - 259	45 - 209		83 - 214	43 - 324	1 - 147		28 - 285		10 - 159		178 - 330	383 - 556	91 - 333	1 257	1 - 20/	3 - 353			
		456	457	458	459			460	461		462	463	464		465		466		467	468	469	470	0/4	471			
		965526	859322	975259	958329			975253	965104		926863	973449	931071		696/16		926255		951933	965105	968794	300030	738233	974297			
		HODFU54	HODFW17	HODFX57	HODFY16			HODFY79	HODFZ11		HODGC04	HODGC61	HODGD05		HODGH02		HODGH04		HODGH07	HODGH11	норсн91	9010011	HODGIUS	HODG167			

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H0615: 4 and H0328:	H0615: 3	H0615: 2	H0615: 3	H0615: 2	AR089: 8, AR061: 3	H0615: 2	H0615: 2	H0615: 3	H0615: 3				AR061: 5, AR089: 2	H0615: 2	H0615: 3	H0615: 2	H0615: 3	H0615: 2 and H0658:	1.	H0615: 2	H0615: 2	H0615: 2 and L0777:		H0615: 3 and H0328:	1.	H0615: 2
Pro-25 to Ser-31.	Phe-81 to Phe-87.				Lys-38 to Arg-44,	Thr-84 to Asp-99.			Val-1 to Lys-7,	Gln-12 to Arg-18,	Arg-22 to Gln-30,	Gly-32 to Glu-40.	Asp-42 to Arg-47,	Gln-84 to Gly-91.		Ala-11 to Cys-16.						Pro-59 to Pro-65,	Glu-96 to Phe-113.	Ala-1 to Glu-12.		Asp-1 to Lys-20, Cys-34 to Ser-42.
3159	3160	3161	3162	3163	3164		3165	3166	3167				3168		3169	3170	3171	3172		3173	3174	3175		3176		3177
402 - 698	2 - 304	292 - 525	67 - 228	3 - 236	23 - 358		261 - 377	117 - 245	175 - 405				2 - 274		253 - 402	183 - 371	206 - 310	138 - 257		315 - 479	3 - 119	3 - 341		132 - 278		190 - 384
472	473	474	475	476	477		478	479	480				481		482	483	-484	485		486	487	488		489		490
859303	974051	883087	974293	889967	908650		958237	974290	974294				894368		974052	958277	963427	613879		933783	961977	922987		974924		926203
HODGL54	HODGM46	HODGO46	HODGP37	HODGP83	HODGP95		НОДСО08	HODGQ22	HODGQ32				нордб65	$\neg \tau$		_		HODGX29		HODGZ06		норнс03		HODHD16		НОДНС71

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H0328: 1 and H0615: 1.	H0328: 1 and H0615: 1.	H0615: 2 and H0328: 1.	H0615: 3	H0615: 3	H0615: 2, H0188: 1	H0615: 2	H0615: 2	H0615: 2	H0615: 3	H0615: 3	H0615: 2	H0615: 2 and L0060:	110415 1 - 1110414	HU415: 1 and HU414: 1.	H0415: 2 and H0414: 1.	H0414: 2	H0415: 1 and H0414:	1.	H0414: 2		H0415: 1 and H0414:	1.
Thr-14 to Arg-22, Ile-25 to Ser-35.	Glu-33 to Lys-46.									Lys-30 to Arg-36.	Lys-8 to Ser-14.	His-20 to Val-35.	H- 12 4: 4 30	ue-13 to Arg-20.			Pro-1 to Arg-8,	Pro-39 to Glu-56.	Glu-1 to Leu-8,	Arg-38 to Cys-49.	Val-18 to Arg-31,	Arg-36 to Pro-42,
3178	3179	3180	3181	3182	3183	3184	3185	3186	3187	3188	3189	3190	2101	3191	3192	3193	3194		3195		3196	
78 - 293	376 - 636	275 - 451	108 - 302	79 - 315	185 - 415	36 - 137	285 - 461	47 - 214	134 - 379	31 - 384	41 - 169	95 - 256	71 705	/1 - 383	527 - 99	100 - 249	118 - 306		2 - 220		3 - 293	
491	492	493	464	495	496	497	498	499	200	501	502	503	703	504	505	206	507		208		509	
964935	952195	973423	918613	973433	847724	965529	965460	914554	922484	951404	965049	933320	663033	77660	964113	573337	932211		772992		707359	
норни82	НОБНІ07	норні26	HODHK02	HODHL19	норнг 26	норно11	HODHS34	HODHY53	HODJR03	HODJY33	HODJZ90	HODKN07	TOBA A 16	HOFAAIS	HOFAB40	HOFAB71	HOFAD05		HOFAE31		HOFAE61	

										121011,	120011,	129300,	253/00,	601885,	602221	106150,	106150,	145260,	173870,	173870,	500759	600006	,066000	501744,	601975	
										13q11-q12						1q42		•					<u>, , , , , , , , , , , , , , , , , , , </u>			
	H0414: 2	H0415: 2	AR089: 26, AR061: 10 H0415: 8 and H0414:	H0415: 2	H0415: 2	H0415: 2	H0415: 2	,		H0415: 2					·	, AR061: 3	H0415: 3									H0415: 3 and H0414:
Arg-57 to Cys-62.	Gly-30 to Gly-46.	Ser-2 to Arg-15.	Arg-10 to Lys-23.	Thr-7 to Gly-18, Pro-20 to Gly-26.			Lys-36 to Ala-52,	Thr-54 to His-61,	FIO-90 to 1 m-90.	Pro-31 to Arg-36, Glu-41 to Glu-52	O14-11 to O111-32.					Pro-1 to Pro-6,	Asp-41 to Arg-67,	Giy-100 to Val-106.								Arg-1 to Cys-16, Tyr-59 to Lys-68,
	3197	3198	3199	3200	3201	3202	3203			3204						3205										3206
	136 - 273	63 - 347	1 - 399	3-158	232 - 405	55 - 264	3 - 446			1 - 387						66 - 497										2 - 478
	510	511	512	513	514	515	516			517						518										519
	868887	782275	572941	572839	916959	867993	924679			734917						973358		-								964722
	_	HOFMA24	HOFMB78	HOFMB83	HOFMD13	HOFME41	HOFMF03		7	HOFMF70						HOFMG21 973358										HOFMH12 964722

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	AR089: 5, AR061: 3 H0415: 1 and H0414: 1.	H0415: 3	H0415: 2	H0415: 8 and H0414: 2.	H0415: 2	AR089: 30, AR061: 10 H0415: 1 and H0414: 1.	H0415: 2	H0415: 5 and H0414:	H0415: 2	H0415: 2	H0415: 2		AR089: 11, AR061: 3 H0415: 2
Glu-76 to Arg-82.	Ser-85 to Gly-100, Pro-102 to Ser-113.	Val-15 to Ala-22, Val-26 to Gly-38, Gln-65 to Gly-70.	Cys-2 to Gly-7, Ala-14 to Pro-20.	Asp-1 to Gly-22, Pro-24 to Gly-34.	Ala-4 to Gly-11, Pro-26 to Trp-31.	Arg-1 to Asp-7, Ser-26 to Leu-39.	Asp-22 to Val-42, Phe-50 to Tyr-55, Leu-65 to Gln-70.	Ala-5 to Trp-19.			Gly-1 to Pro-6, Pro-23 to Asp-28,	Pro-36 to Ser-46,	Gly-1 to His-12, Ser-40 to Pro-66,
	3207	3208	3209	3210	3211	3212	3213	3214	3215	3216	3217		3218
	3-413	2-211	2 - 121	3 - 452	1 - 225	2 - 301	3 - 359	1 - 132	49 - 366	422 - 234	2 - 202		2 - 445
	520	521	522	523	524	525	526	527	528	529	530		531
	920365	973359	609722	796358	745133	719663	675122	973349	464015	514556	260869		775242
	НОЕМН38	НОҒМН95	HOFMI01	HOFMI62	HOFMI63	HOFMJ44	HOFMK22	HOFMM27	HOFMM72	HOFMN30	HOFMP31		HOFMP79

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		H0415: 1 and H0414:			H0415: 4	H0415: 2			H0415: 2	H0415: 1 and H0435:				H0415: 2			H0415: 2		H0415: 2						H0415: 2		H0415: 1 and H0414:	1. TTO 41 5. 0	H0415: 2
Glu-79 to Lys-89,	Glu-96 to Leu-105.	Gly-11 to Leu-19,	Val-23 to Gly-32,	His-34 to Ser-45.		Gly-1 to Ser-13,	Arg-26 to Glu-35,	Gly-38 to Met-48.		Thr-4 to Gly-9,	Leu-32 to Glu-42,	Pro-54 to Cys-68,	Ile-97 to Gly-113.	Arg-34 to Thr-44,	Pro-65 to Gly-79,	Leu-98 to Ser-105.	Asn-20 to Cys-29,	Val-33 to Ser-40.	Val-6 to Arg-12,	Pro-19 to Thr-36,	Ser-49 to Thr-54,	Glu-61 to Trp-67,	Pro-77 to Ala-84,	Ser-104 to Asn-114.	Arg-1 to Asn-8,	Lys-20 to Gly-38.	Gly-2 to Gly-9.	Λ 1 to Cl., 20	Arg-1 to Gly-20,
		3219			3220	3221			3222	3223				3224			3225		3226						3227		3228	3330	2776
		34 - 318			183 - 449	2 - 280			187 - 348	340 - 2				2 - 205			2 - 157		1 - 411						2 - 169		3 - 248	273	7-2/2
		532			533	534			535	536				537			538		539						540		541	242	247
		823439			906933	789347			464075	514568				575820			882699		811542						754251		563575	COVCOL	102424
		HOFMQ04			HOFMQ31	HOFMQ65			HOFMS68	HOFMS74				HOFMS89			HOFMT20		HOFMT43						HOFMT66		HOFMT72	UOEMI133	HOFMUSS

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	H0415: 2	H0415: 2	H0415: 2	•		H0415: 2		H0415: 2	H0415: 2	H0415: 2	H0415: 2	H0415: 2	AR054: 11, AR051: 3,	AR050: 2	H0415: 2						H0415: 2					H0415: 2	H0415: 2	H0415: 2
Pro-45 to Ser-50.	His-8 to Trp-19.		Lys-10 to Trp-15,	Pro-47 to Ser-55,	Pro-67 to Phe-76.	Glu-19 to Gln-24,	Thr-30 to Lys-38.	Arg-1 to Gly-12.	Tyr-1 to Pro-12.		Pro-80 to Trp-88.					Ala-5 to Ala-13,	Pro-15 to Lys-23,	Ala-39 to Cys-44,	Pro-47 to Cys-74,	Ala-83 to Gly-90.	Gly-1 to Asn-10,	Gln-30 to Asp-35,	Gln-44 to Gly-54,	Ser-61 to Val-89,	Ser-92 to Ser-98.	Thr-30 to Tyr-39.	Gly-19 to Asn-24.	Thr-18 to Trp-23.
	3230	3231	3232			3233		3234	3235	3236	3237	3238	3239			5342					3240					3241	3242	3243
	1 - 243	2 - 121	3 - 230			209 - 373		95 - 343	203 - 3	3 - 122	54 - 341	446 - 90	407 - 174			2 - 325			*		2 - 388					67 - 225	140 - 280	1 - 207
	. 543	544	545			546		547	548	549	550	551	552			2655			•		553					554	555	556
	744325	713809	859109			615287		792734	973354	658476	867984	727285	727173			888450			•		716670					717067	859106	935569
		HOFMU75	HOFMV84 859109			HOFNA04		HOFNA92	HOFNC63		HOFND40	HOFND50	HOFND52								HOFND90					HOFND94	HOFNG01	HOFNG06

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										601362												125852,	126452,	126452	141900	141900	141000	141900,	141700,
										10p13												11p15.5							
H0415: 2	H0415: 4	H0415: 2		H0415: 3	AR089: 9, AR061: 3	H0415: 1 and H0414:	1.	AR089: 8, AR061: 7	H0415: 3	H0415: 6, H0414: 2,	H0046: 1 and H0271: 1.			H0415: 2	H0415: 2	H0415: 2	H0415: 2					H0415: 2							
Asp-14 to Gly-20, Arg-45 to Ala-50.		Pro-2 to Gly-13,	Gly-59 to Ser-64.	Gly-36 to Tyr-50.	Ser-26 to Pro-33.	•		Lys-54 to Ser-60,	Tyr-86 to His-93.	Gly-1 to Pro-6,	Thr-24 to Ala-30,	Ser-33 to Pro-41,	ser-31 to ser-61.		Gln-1 to Pro-8.		Pro-7 to Ser-12,	Glu-37 to Ser-42,	Leu-45 to Gly-53,	Leu-68 to Val-75,	Ser-81 to Thr-86.								
3244	3245	3246		3247	3248			3249		3250				3251	3252	3253	3254					3255							
3 - 152	1 - 426	140 - 376		117 - 362	1 - 405			41 - 346		2 - 394			ļ	1 - 225	244 - 414	2 - 340	109 - 405					1 - 216							
557	558	559		260	561			295		563				564	565	995	292					268							
715101	974435	708727		717355	666498			916963		906250				711205	770088	869113	615305					705435							1
HOFNH33 715101	HOFNI08	HOFNI48		- 1	HOFNL18			HOFNL25		HOFNL37			Т			HOFNM85						HOFNU72							

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141900,	142000, 142000,	142200,	142250,	142270,	176730,	176730,	176730,	190020,	191290,	192500,	(192500,	194071	194071	204500	600856,	601680	602631,	602631									
																			H0415: 2	H0415: 8 and H0414:	2.	H0415: 2	H0415: 2			H0415: 2	H0415: 2
						•													Lys-1 to Ser-14.			•	Pro-15 to Pro-25,	Lys-68 to Glu-76,	Lys-89 to Arg-107.	Ser-18 to Ser-34.	Gly-1 to Pro-6.
								•											3256	3257		3258	3259			3260	3261
																			28 - 237	9-365		217 - 495	68 - 430			98 - 379	2 - 268
																			569	270		571	572			573	574
																	-		916588	973351		920218	715312			660317	859104
											-								HOFNW10	HOFNW79		HOFNY02	HOFNY50			HOFNZ15	HOFNZ16

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H0415: 2	H0415: 2	H0415: 1 and H0414:	H0415: 2	H0415: 2						H0415: 2	H0415: 2			H0415: 2	H0415: 2		H0435: 1 and S0152: 1.		H0615: 1 and H0435:	1	H0663: 2, L0761: 1,	L0771: 1 and H0435: 1.			11047£. 0 1 0000	H0435: 2 and L0592:
Arg-1 to Gly-6.			Gly-34 to Glu-39.	Thr-2 to Val-11,	Leu-18 to Gly-25,	Pro-30 to Ser-35,	Ala-40 to Pro-47,	Lys-62 to Glu-70,	Lys-76 to Arg-82.		Thr-1 to Ser-11,	Ser-23 to His-29,	Gly-53 to Gln-67.		Asn-1 to Gln-9,	Pro-17 to Ala-30.	Asp-1 to Leu-22,	Val-26 to Trp-38.	Cys-10 to Asp-19.		Pro-8 to Lys-15,	Arg-67 to Arg-74,	Arg-76 to Gly-85,	Glu-91 to Gly-97,	T xig 1 to Vol 7	Lys-1 to Val-/.
3262	3263	3264	3265	3266						3267	3268			3269	3270		3271		3272		3273				2771	32/4
109 - 456	29 - 229	99 - 218	142 - 369	1 - 501						1 - 234	173 - 382			3 - 419	78 - 431		3 - 269		247 - 402	, , , ,	211 - 576				264 - 443	704-407
575	576	577	578	579						580	581			582	583		584		585	700	286				587	700
677372	683473	794308	935553	751692						827631	924473			606999	739399		947431		954011	00000	370038				575920	212727
HOFNZ21 677372	HOFNZ58	HOFNZ94	HOFOA17	HOFOB88						HOFOB91	HOFOE94				HOFOF84		HOGAF39		HOGAU90) CASA COLL	HOGAV36 926098				HOGBF78	7

HOGCR32 575931 589 HOGCR32 575931 589 HOGCT45 717068 590 HOGCCX95 890607 591 HOGEU49 961587 593 HOGEU49 965013 594 HOVAF17 576627 595 HOVAF71 576627 595 HOVAF71 757294 596	381 - 193				•
575931 717068 890607 968956 961587 965013 576627 757294 757294 927320		3275	Pro-12 to Ala-17, Val-29 to Gly-36.	H0165: 1, H0435: 1 and L0747: 1.	
968956 961587 965013 576627 757294	3 - 137	3276	Pro-3 to Lys-13, Thr-39 to Ile-45.	H0435: 2	
890607 968956 961587 965013 757294 927320	2 - 364	3277	Arg-1 to Glu-14, Thr-39 to Gln-45,	H0040: 1 and H0435: 1.	
890607 968956 961587 965013 576627 757294			Fro-52 to Lys-62, Glu-89 to Thr-94.		
968956 961587 965013 576627 757294 927320	52 - 660	3278		H0038: 2, L0758: 2,	-
968956 961587 965013 576627 757294 927320				H0253: 1, H0616: 1,	
968956 961587 965013 576627 757294 927320				H0435: 1 and L0777: 1.	
961587 965013 576627 757294 927320	732 - 298	3279		H0435: 2	
	1 - 285	3280	Asp-25 to Ser-34,	H0435: 1 and H0670:	
965013 576627 757294 927320			Tyr-39 to Gln-44, Leu-84 to Lys-90.	1.	
576627 757294 927320	418 - 621	3281		H0648: 2, L0367: 1,	
576627 757294 927320				H0651: 1, L0748: 1 and L0754: 1.	
757294 927320	215 - 358	3282		H0428: 2	
927320	55 - 183	3283		H0428: 2	
	2 - 298	3284		H0428: 2 and L0588:	
				1.	
HOVAI41 670963 598	3 - 107	3285		H0428: 2	
HOVAM50 723671 599	64 - 243	3286	Ser-22 to Arg-35, Lys-39 to Gly-44.	H0428: 2	
HOVAO76 770066 600	89 - 238	3287	Arg-15 to Gln-21.	L0754: 2, H0428: 1 and H0616: 1.	
HOVBQ10 964671 601	515 - 763	3288	Lys-21 to Gly-26.	L0777: 6, L0758: 5,	

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																			138079,	138079	139191.	142959,	153880,	180104,	600994,	601649		
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L0747: 2, H0428: 1,	L0770: 1, L0768: 1,	L0533: 1, H0666: 1,	L0750: 1 and L0755: 1.	H0428: 2		AR051: 44, AR050:	43, AR054: 30	H0428: 2	H0428: 2	H0428: 2	H0428: 3		H0428: 2	H0428: 2		H0674: 2, H0549: 1	and H0428: 1.		H0428: 2 and L0770:	-							H0428: 2	L0758: 3, H0428: 2, L0794: 2, L0764: 1,
				Gly-1 to Ala-8,	Glu-67 to His-74.	Gly-37 to Arg-46,	Ser-57 to Trp-70.			Ser-8 to Leu-16.	Arg-13 to Gly-18,	Gln-44 to Ser-50.	Lys-7 to Ser-16.	Leu-16 to His-22,	Cys-50 to Pro-55.	Ser-1 to Lys-14,	Gln-48 to Asn-63,	Glu-70 to Pro-88.	Val-11 to Leu-18.									
				3289		3290			3291	3292	3293		3294	3295		3296			3297								3298	3299
				2 - 295		3-215			232 - 354	25 - 192	60 - 284		119 - 241	68 - 319		219 - 482			157 - 423								283 - 420	1 - 213
				602		603			604	605	909		209	809		609			610								611	612
				706816		888442			727170	705406	858845		713792	858844		674177			970814						-		736065	496190
				HOVBY34		HOVBZ26			HOVCA52				HOVCI77	HOVCJ24		HOVCM22			HOVC011 970814								HOVCO58	HOVCQ47

							113100, 124200, 147440, 158590, 160781,	50,
_							113100, 124200, 147440, 158590, 160781, 163950,	163950,
							12q24	
L0803: 1 and L0593: 1.	L0769: 4, L0758: 3, L0717: 2, H0428: 2, L0794: 2, L0731: 2, L0591: 2, L0776: 1, L0786: 1 and L0779: 1.	H0428: 1 and H0032:	AR089: 10, AR061: 4 H0038: 4, H0616: 3, L0747: 3, L0758: 3, L0663: 2, H0369: 1, H0428: 1, L0769: 1, L0542: 1, L0809: 1, L0666: 1, L0665: 1, L0743: 1, L0777: 1, L0731: 1 and S0456: 1.	H0428: 2 and H0546:	50146: 2	H0658: 1, S0146: 1 and L0754: 1.	S0146: 2	
	Ser-25 to Gly-45.	Thr-11 to Pro-21.	Met-10 to Gly-18.					
	3300	3301	3302	3303	3305	3306	3307	
	81 - 320	131 - 3	3 - 395	128 - 307	37 - 225 57 - 155	96 - 230	2 - 355	
	613	614	615	616	618	619	620	
	926219	669896	909138	959234	573829	698320	574952	
	HOVDY04	HOVEE58	HOVEK70	HOVEV36	HOVJA10 HPCAB21	HPCAB31	HPCAE18	

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251170,	600175, 601517																									
		S0146: 2	S0146: 2, H0046: 1,	S0148: 1, L0439: 1 and	L0745: 1.	S0146: 2	S0146: 2		H0615: 1, H0658: 1	and S0146: 1.	H0031: 1 and S0146: 1.	S0146: 2	S0146: 2.	S0146: 2	S0146: 2	S0146: 2	H0659: 2	H0659: 2	H0606: 1, L0803: 1	and H0659: 1.	H0549: 1, L0773: 1,	L0768: 1, L0794: 1,	L0803: 1, H0658: 1 and	L0747: 1.	H0658: 2	H0046: 17, H0658: 1
							Lys-1 to Gln-6,	Met-15 to Thr-29.				Gly-24 to Ser-34.	Asn-12 to Ile-18.	Asp-26 to Phe-39.				Gly-29 to Tyr-34.	Ser-34 to Gly-43,	Lys-55 to Leu-71.						Arg-7 to Tyr-14.
		3308	3309			3310	3311		3312		3313	3314	3315	3316	3317	3318	3319	3320	3321	,	3322				3323	3324
		192 - 314	488 - 637			134 - 259	58 - 168		455 - 634		265 - 420	41 - 142	1 - 117	64 - 237	91 - 210	181 - 315	88 - 249	3 - 128	3-371		1 - 384				22 - 201	92 - 436
		621	622			623	624		625		979	627	628	679	630	631	632	633	634		635				636	637
		573395	923808			655535	922239		662121		734931	655723	924709	209559	655742	655732	891/26	928166	927135		922481				929318	966158
		HPCAH18	HPCAH88			HPCAI21	HPCA168		HPCAK16			HPCAL60		HPCAM22		HPCA004	HPCPF05	HPCPO07	HPCQY57		HPDOT03				HPDOY06	HPDP169

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and H0672: 1.	H0658: 2	L0520: 2, L0770: 2,	H0658: 2, L0659: 1 and	L0759: 1.	L0749: 3, H0658: 2	and H0660: 1.	H0658: 2, L0745: 2,	H0644: 1 and L0529: 1.	H0658: 2	L0748: 3, H0658: 2	and L0741: 1.	L0021: 1, H0658: 1	and H0672: 1.	H0644: 2 and H0658:	1.	L0512: 5, L0513: 4,	H0686: 3, L0509: 3,	L0789: 3, L0761: 2,	L0772: 2, L0764: 2,	L0717: 1, L0800: 1,	L0378: 1, L0776: 1,	L0659: 1, H0658: 1 and	L0747: 1.	H0046: 2, L0794: 1,	L0766: 1, H0658: 1,	L0748: 1 and L0758: 1.	L0374: 1, L0804: 1,	L0805: 1, H0658: 1,	H0648: 1, L0750: 1 and
		Ile-10 to Asn-36.			Ala-13 to His-22,	Leu-80 to Arg-86.				Pro-51 to Phe-57,	Ser-87 to Thr-94.			Arg-5 to Cys-10,	Ser-22 to Ile-28.	Pro-22 to Asn-33,	Arg-103 to Val-108.												
	3325	3326			3327		3328		.3329	3330		3331		3332		3333								3334			3335		
	155 - 316	2 - 223			588 - 875		306 - 449		308 - 511	1 - 291		2 - 163		342 - 554		430 - 765								524 - 847			97 - 243		
	638	639			640		641		642	643		644		645		646								647			648		
	969340	922464			929274		914437		162256	967704		829266		951634		928647								922193			226896		
	HPDPK12	HPDPQ40			HPDQ005		HPDRB01		HPDRD28	HPDRG92		HPDRO20		HPDVB07		HPDVE05						-		HPDVF03			HPDVK12		

													106300, 108800, 120290, 120290,
													6p21.1-p21.3 106300, 108800, 1202900, 120290, 120290, 120290, 12029000, 1202900, 1202900, 1202900, 12029000, 12029000, 12029000, 120290000, 120290000, 12029000, 120290000, 120290000000000000000000000000000000000
L0755: 1.	L0779: 2, H0032: 1 and H0658: 1.	H0658: 2	H0165: 2	H0166: 1, H0059: 1 and L0768: 1.	H0166: 2 and L0598:	H0166: 2 and L0604:	H0166: 1, H0673: 1, L0763: 1 and L0581: 1.	H0673: 2	H0673: 2	H0328: 1 and H0673:	L0779: 2, H0428: 1, H0673: 1, L0766: 1 and L0658: 1.	H0168: 1 and H0169: 1.	H0169: 2
	His-19 to Tyr-34, Glu-39 to Pro-47.	Ghr-1 to Thr-6, Ser-22 to Leu-27, Ser-32 to Phe-37.		Trp-1 to Pro-11, Ala-27 to Phe-34,	Ile-18 to Asn-25.		Glu-31 to Cys-39.				Gly-1 to Asn-8, Pro-22 to Ser-31, Thr-41 to Lys-48.		Ser-12 to Ser-17, Lys-24 to Ser-34.
	3336	3337	3338	3339	3340	3341	3342	3343	3344	3345	3346	3347	3348
	439 - 591	226 - 444	3 - 224	253 - 2	61 - 255	3 - 200	284 - 406	1 - 96	57 - 131	220 - 408	2-217	283 - 426	40 - 288
	649	059	651	652	653	654	655	959	657	658		099	661
	933443	955902	867892	960802	723298	655760	716911	914115	922391	921663	969251	960801	524720
	HPDVM06	HPDVY17	HPEAF19	HPEBA06	HPEBA51	HPEBD31	HPEBE44	HPEKG18	HPEKJ42	HPEKU27	HPEKX12	HPFAA06	HPFCA36

10	20,	, 27	,,	58,	70,	50,	61,	00	.50,	.05	.05,	.05,	.05,	.05,	.67,	10,	00,	00	00,	00	11,	50,	50,	9	.02,	.61,	64,	.98,	,06	68,
1120010	1208	7.00	1470	1428	1502	1672	1702	1779	1794	1796	1796	1796	1796	1796	1802	2019	2170	2221	2331	2352	2486	2565	2565	2632	6002	6002	6003	6014	601690,	6018
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602280,	602475												103050,	103050,	124030,	124030,	138981,	182380,	188826,	190040,	190040,	190040						
													22q13.1															
		H0169: 2	H0169: 2	H0169: 2	H0169: 2	H0169: 2	H0169: 2		H0169: 2	H0169: 2	H0169: 2		H0169: 2 and L0519:										H0169: 2, L0749: 2	and L0748: 1.	H0169: 2	H0169: 2	H0169: 2	H0169: 2
		Glu-28 to Gly-42.			Ser-2 to Pro-10.	Ala-38 to Ser-48.	Met-4 to Leu-9,	Gly-39 to Gln-46.	Ser-15 to Leu-23.		Leu-18 to Arg-25,	Gly-35 to Lys-40.	Ser-18 to Thr-25.										Glu-11 to Thr-19.					Lys-9 to Thr-14,
		3349	3350	3351	3352	3353	3354		3355	3356	3357		3358										3359		3360	3361	3362	3363
		130 - 363	152 - 355	186 - 398	353 - 189	38 - 193	154 - 357		65 - 139	135 - 287	2 - 244		20 - 166										1 - 210		136 - 306	273 - 401	110 - 411	140 - 286
		662	663	664	999	999	299		899	699	029		671										672		673	674	675	9/9
		965559	536666	655744	009896	781490	655768		655538	655736	925495		960365										867871		867880	655749	655621	655533
		HPFCA71	HPFCF09	HPFCF24	HPFCF40	HPFCF83	HPFCH15		HPFCH89	HPFCM41	HPFCM87		HPFCN08							-			HPFC002		HPFCO67	HPFCQ88	HPFCR21	HPFCR82

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	H0169: 2	H0169: 3		H0169: 2		H0169: 2 and L0776:	- I		H0328: 1, H0615: 1,	H0169: 1, L0807: 1 and	L0754: 1.	H0169: 2	H0169: 2	H0169: 2 and L0809:			H0169: 4			H0169: 3	H0169: 2	H0169: 2	H0169: 2	H0169: 2	H0169: 2	H0169: 2 and L0763:	1.	H0169: 3
Glu-21 to Pro-26.	Met-1 to Cys-9.	lle-3 to Ala-14,	Arg-63 to Pro-68.	Glu-9 to Arg-15,	Pro-24 to Tyr-39.	Leu-5 to Ser-11,	Pro-13 to His-19,	Lys-34 to Tyr-39.	Gly-22 to Cys-32.			Ser-16 to Asp-26.	Lys-23 to Val-34.	Leu-4 to Lys-18,	Gly-36 to Glu-45,	Lys-60 to Cys-65.	Asp-1 to Arg-7,	Thr-17 to Asn-22,	Leu-25 to Pro-30.	Ser-3 to Tyr-9.	Cys-32 to Pro-38.	Leu-5 to Gly-10.			Pro-18 to Asn-25.			
	3364	3365		3366		3367			3368			3369	3370	3371			3372			3373	3374	3375	3376	. 3377	3378	3379		3380
	13 - 120	271 - 522		85 - 198		79 - 195			1 - 240			153 - 263	2 - 163	67 - 330			392 - 538			156 - 320	121 - 318	197 - 367	2 - 202	8 - 160	166 - 342	36 - 212		63 - 173
	229	8/9		619		089			681			682	683	684			685			686	687	889	689	069	691	692		693
	655563	974257		655432		90/559			525554			655588	002096	655704			974249			973732	655610	655549	954333	655543	581133	655530		974569
	HPFCT09	HPFCT53		HPFCT62		HPFCV19		٠	HPFCV71			HPFCX18	HPFDD06	HPFDE38			HPFDE61			HPFDF79	HPFDG58	HPFDI23	HPFDL90	HPFDS59	HPFDT17	HPFDT54		HPFDT61

H0169: 2	H0169: 2	H0169: 2	AR050: 117, AR054:	88, AR051: 81	H0169: 2	H0169: 2, L0747: 2,	H0688: 1, L0770: 1,	L0803: 1, L0748: 1 and	L0756: 1.	H0169: 2	H0169: 3	H0169: 2	H0674: 2	H0674: 2	S0150: 2		S0150: 2				S0150: 2	S0150: 2	H0484: 1 and S0150: 1.		S0150: 2	AR061: 9, AR089: 7	H0616: 1, S0150: 1 and	L0581: 1.
His-46 to Pro-51.			Pro-14 to Gly-25.			Val-1 to Lys-11,	Pro-24 to Asp-33,	Lys-44 to Glu-58.			Ile-1 to Gly-44.		Ala-7 to Arg-12.	Lys-9 to Leu-15.	Asn-1 to Lys-7,	Pro-14 to Cys-23.	Ser-1 to Arg-7,	Pro-57 to Trp-67,	Pro-70 to Ala-75,	Ser-87 to Gly-95.	Pro-39 to Glu-46.	Lys-1 to Lys-17.	Gly-1 to Val-6,	Asp-25 to Gln-42.	Ser-8 to His-16.			
3381	3382	3383	3384			3385				3386	3387	3388	3389	3390	3391		3392				3393	3394	3395		3396	3397		
2 - 232	36 - 167	214 - 369	124 - 354			1 - 294				25 - 213	2 - 187	142 - 309	63 - 212	39 - 113	17 - 394		2 - 334				106 - 243	61 - 2	2 - 463		64 - 174	282 - 608		
694	695	969	<i>L</i> 69			869				669	700	701	702	703	704		705				902	707	208		402	710		
522113	867879	739617	867870			655571				655764	960372	925499	953536	917775	655748		655595				919469	655573	928614		1200519	925424		
HPFDU30	HPFDU38	HPFDU59	HPFDV71			HPFDX13				HPFDZ20	HPFEA08	HPFEA32	HPFMA06	HPFML02	HPIAE79		HPIAO83				HPIAQ49	HPIAQ76			HPIAV80	HPIAX11		

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					•								1															
S0150: 2	AR089: 4, AR061: 2	S0150: 2			H0546: 1 and S0150: 1.		S0150: 2	S0150: 2	L0439: 2, H0616: 1	and S0150: 1.	S0152: 2	S0152: 2		S0152: 2 and L0780: 1.		S0152: 2	S0152: 2	S0152: 2		S0152: 2		S0152: 2	L0748: 3, S0152: 2,	H0615: 1, H0617: 1 and	L0758: 1.	S0152: 2	S0152: 2	S0152: 2
	Ile-47 to Val-53,	Phe-71 to Thr-76,	Ser-105 to Thr-113,	Glu-121 to Ser-129.	Ala-15 to Ser-21,	Gln-30 to Asp-36.	Tyr-30 to Cys-36.					His-1 to Asp-6,	Ala-16 to Ala-25.	Cys-5 to Gly-12,	Ser-47 to Arg-52.	His-1 to Leu-19.		Val-2 to Ser-14,	Gly-27 to Ala-37.	Arg-5 to Lys-13,	Ser-20 to Thr-25.	Leu-43 to Cys-51.				Ser-29 to Arg-35.	Ser-19 to Gln-25.	
3398	3399				3400		3401	3402	3403		3404	3405		3406	•	3407	3408	3409		3410		3411	3412			3413	3414	3415
2 - 289	2 - 424		-		1 - 468		176 - 283	133 - 294	211 - 414		1 - 153	3 - 269		154 - 330		3 - 251	180 - 332	141 - 290		53 - 187		180 - 335	346 - 594	-		162 - 326	1 - 81	99 - 263
711	712				713		714	715	716		717	718		719		720	721	722		723		724	725			726	727	728
655753	884289				725539		655719	151559	786117		655540	655531		109559		867831	655712	655694		592559		952852	823393			655761	802559	655751
HPIAZ37	нРВQ37				HPBR51		HPIBT49	HPIBY65	HPICC89		HPJAB19	HPJAB84		HPJAC36		HPJAC92	HPJAD09	HPJAD66		HPJAD82		HPJAV07	HPJAW56			HPJBI17	HPJBI89	HPJBK52

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S0152: 2		S0152: 2	S0152: 2	S0152: 2	H0056: 1 and S0152: 1.	S0152: 2	H0253: 1 and S0152: 1.			S0152: 2	S0152: 2	S0152: 2	S0152: 2	S0152: 2	S0152: 2 and L0070: 1.					, (()		S0152: 2	H0615: 2 and S0152: 1.	S0152: 2	L0770: 2, L0779: 2,	H0553: 1, L0766: 1,	L0666: 1, S0152: 1 and
Gln-13 to Thr-18,	His-40 to Met-45.		Asn-42 to Gly-51.		Pro-36 to Gly-62.		Ala-14 to Lys-21,	Asp-37 to Gly-48,	Gly-60 to Leu-65.			Pro-3 to Cys-11.	Val-2 to Thr-8.	Ser-1 to Gly-16.	Leu-8 to Lys-19,	Asp-25 to Arg-33,	Ser-40 to Ser-63,	Ala-70 to Val-77,	Glu-91 to Asp-97,	His-108 to Asn-116,	Lys-130 to Glu-136, Asp-139 to Val-144.				Ser-23 to Arg-28.		
3416		3417	3418	3419	3420	3421	3422			3423	3424	3425	3426	3427	3428							3429	3430	3431	3432		
29 - 193		10 - 123	32 - 370	113 - 244	25 - 337	2 - 286	260 - 460			245 - 334	239 - 349	111 - 203	79 - 183	102 - 242	438 - 1031							386 - 556	299 - 454	79 - 183	292 - 483		
729		730	731	732	733	734	735			736	737	738	739	740	741							742	743	744	745		
626856		62229	926787	964259	929996	590404	560896			655730	009559	695559	922850	934170	958182							906904	931027	838748	954970		
HPJBU08 958979		HPJBV17	HPJCC04	HPJCP10	HPJCP11	HPJCS84	HPJCV50			HPJCX15	HPJCX26	HPJCY70	HPJCZ03	HPJCZ06	HPJDA08							HPJDJ58	HPJDP05	HPJDX94	HPJEE38		

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			11																									
L0777: 1.	S0152: 2	S0152: 2	H0435: 1 and S0152: 1.11	S0152: 2	AR061: 0, AR089: 0	S0152: 2		S0152: 2		L0754: 39, L0748: 7,	H0553: 4, H0030: 1,	L0142: 1 and S0454: 1.	H0030: 2	H0030: 2	H0030: 2		H0030: 2	H0030: 1, H0038: 1	and LU/58: 1.	H0031: 2	H0031: 2	H0031: 2	H0031: 2 and L0777:	2.	H0031: 3			
	Gly-1 to Pro-7.	Gly-1 to Ala-11.		Thr-29 to Gly-38.	His-8 to Gly-18,	Leu-40 to Ile-45,	Asn-100 to Asp-105.	Leu-17 to Glu-23,	Arg-27 to Glu-35.	Gly-1 to Arg-9.					Gly-1 to Ala-7,	Pro-42 to Asn-47.	Phe-29 to Lys-35.	Glu-1 to Thr-9.					Gln-20 to Ser-31,	Phe-41 to Gly-47.	Tyr-19 to Gly-46,	Ser-48 to His-59,	Gly-65 to Gly-77,	Thr-91 to Tyr-96.
	3433	3434	3435	3436	3437			3438		3439			3440	3441	3442		3443	3444	2445	3443	3446	3447	3448	·	3449			
	14 - 130	284 - 538	149 - 328	239 - 448	39 - 377			70 - 213		49 - 189			236 - 3	287 - 72	16 - 183		57 - 245	2 - 241	40 152	40 - 133	2 - 214	1 - 147	125 - 301		3 - 503			
	746	747	748	749	750			751		752			753	754	755		756	757	758	00/	759	760	761		762			
	926815	930988	927618	867725	836503			934096		717680			557554	503751	503732		503730	558187	705471	1,200	766443	954057	277661		575626			
	HPJEI55	HPJEJ39	HPJEQ04		HPJET90			HPJEV06		HPLAN47			HPLAR41		HPLBL31		HPLBL57	HPLB061	HPMAG10	CIDITAL	HPMAH75	HPMBK34	HPMBK49		HPMBM48			

			-						12															
H0031: 2	H0031: 4	H0031: 3	H0031: 2		H0031: 2	H0031: 2	H0031: 2	H0031: 2	H0031: 4 and L0803:	H0031: 2	H0031: 2 and L0605:	H0031: 2	H0253: 1 and H0031:	H0031: 2, L0809: 1,		H0031: 2	H0031: 3	H0031: 2	H0031: 2	H0031: 2 and L0600:	1.	H0031: 3		H0031: 10
		Gly-1 to Gly-8.	Thr-1 to Gln-7,	Pro-24 to Gly-32.	Ser-32 to Thr-41.			Tyr-25 to Gly-32.	Ser-50 to Gly-55.		Gly-12 to Ile-18.	Pro-28 to Pro-42.	Asp-1 to Cys-6.	Leu-19 to Thr-25, Arg-66 to Phe-87			Glu-30 to Asp-40.			Leu-6 to Leu-16,	Thr-24 to Trp-29.	Gh-1 to Gh-9,	Arg-15 to Gly-22.	Tyr-1 to Arg-8.
3450	3451	3452	3453		3454	3455	3456	3457	3458	3459	3460	3461	3462	3463	5343	3464	3465	3466	3467	3468		3469		3470
1 - 120	39 - 278	1 - 249	192 - 404		28 - 165	3 - 125	118 - 276	2 - 163	90 - 341	62 - 196	111 - 302	171 - 314	3 - 278	326 - 66	3 - 341	27 - 161	93 - 317	1 - 243	44 - 304	54 - 314		3 - 182		16 - 108
763	764	292	992		191	292	692	170	771	772	773	774	775	176	2656	777	778	622	780	781		782		783
920865	968365	867677	785732		557870	531058	577637	531338	527006	932527	531289	531066	529960	381961	881473	865775	524768	531279	577601	742095		924056		961250
HPMBN02	HPMBO10	HPMB061	HPMBR17		HPMBU81	HPMBX35	HPMBX79	HPMBY76	HPMBY83	HPMBZ05	HPMCB65	HPMCC73	HPMCD77	HPMCI02		HPMCI65	HPMCJ14	HPMCJ19	HPMCJ48	HPMCK65		HPMCS19		HPMCS65

H0031: 3 and L0594:	H0031: 2 and L0758:				H0031:2		H0031: 2 and L0662:	H0031.7	7:10011	H0031:2	H0031: 3, L0667: 1	and L0748: 1.	H0031: 4	H0031: 2		H0031: 2	H0031: 2	H0031: 2	L0748: 14, H0553: 4,	L0754: 4, H0644: 3,	H0031: 2, L0005: 1,	L0774: 1, S0454: 1,	L0749: 1 and L0780: 1.	H0031:2	H0031: 2 and H0644:
Arg-5 to Trp-15.	Gly-1 to Ser-8,	Leu-36 to Gly-42,	Leu-48 to Asn-55,	Lys-83 to Met-91.	Pro-19 to Lys-26,	Pro-36 to Gly-55.	Gln-6 to Thr-19.	Asn_7 to I on_12	Ala-16 to His-21.					Glu-1 to Pro-6,	Thr-45 to Val-50.			Gly-38 to Ser-45, Gly-72 to Gly-78.						Lys-8 to Lys-15.	Phe-5 to Gly-10.
3471	3472				3473		3474	3475		3476	3477		3478	3479		3480	3481	3482	3483					3484	3485
31 - 186	1 - 285				2 - 202		115-312	119-271		189 - 338	272 - 397		108 - 215	49 - 330		55 - 204	33227	3 - 299	163 - 276					7 - 51	116 - 286
784	785				286		787	788	}	789	. 790		791	792		793	794	795	962					797	798
657532	867673				727392		967655	867687		725180	571411		582594	277590		531275	867682	745346	217626					531274	531276
HPMCV93	HPMCW25				HPMCW53		HPMCX11	HPMCV30		HPMCY31	HPMCY35		HPMDJ09	HPMDL78		HPMD039	HPMDR07	HPMDT91	HPMDU19	_			-	HPMDY82	HPMDZ62

ГП					\neg																	\neg					-	
											102480,	123620,	133450,	133450,	138981,	188826,	190040,	190040,	190040,	600850,	601669,		189800,	600983				
											22q12-q13												4q31.1-q31.2					
1.	H0031:2	H0031: 2	H0031: 2	H0031: 2 and L0740:	-	AR061: 6, AR089: 3	H0031: 3	H0031: 4	H0031:2	H0031: 2		H0046: 2, L0617: 1,	L0747: 1 and L0779: 1.										H0031:2			H0031: 3		
	Lys-20 to Thr-31.			Ile-29 to Ile-36.		Lys-23 to Ser-33.				Pro-20 to Pro-26.	Arg-1 to Ser-8,	Pro-23 to Gly-30,	Glu-62 to Arg-68.										Pro-15 to Leu-27,	Phe-44 to Asp-49,	Ala-83 to Lys-99.	Asp-37 to Thr-43,	Ala-46 to Ala-53,	His-64 to Trp-76.
	3486	3487	3488	3489		3490		3491	3492	3493	3494												3495			3496		
	3 - 149	136 - 249	92 - 214	1 - 114		2 - 451		240 - 437	182 - 319	3 - 122	117 - 443												3 - 404			3 - 281		
	799	800	801	802		803		804	805	908	807												808			608		
	531349	859198	<i>L</i> 68899	702501		531347		531321	577619	925080	784781												920308			575934		
	HPMEB66	HPMEC16	HPMEC36	HPMEC69		HPMED52		HPMEE48	HPMEE66	HPMEG50	HPMEI39												HPMFB02			HPMFB28		

H0031: 8 and L0581:	2.	H0031: 2	H0031: 2		H0031: 2	H0031: 2	,	H0031: 2	H0031: 2	H0031: 2, L0438: 2	and L0439: 2.	H0031: 5	AR089: 1, AR061: 1	H0031:2	H0031: 2, H0644: 1	and L0527: 1.		H0428: 1, H0031: 1,	L0766: 1, L0659: 1,	H0690: 1, L0439: 1,	L0754: 1 and L0756: 1.	H0031: 3	H0031: 2	H0031: 3	H0031: 3	H0031: 4 and L0754:		H0031: 3
			Leu-2 to Glu-8,	Pro-39 to Ser-44.	Gln-14 to Thr-22.	Ser-8 to Ser-14,	Ser-27 to Pro-48.	Pro-38 to Gly-45.		Gln-7 to Ser-12.			Met-43 to Trp-52.		Ala-1 to Lys-6,	Pro-12 to Trp-19,	Met-63 to Lys-68.					Arg-15 to Val-21.	Leu-9 to Ile-17.					Ala-1 to Asn-9,
3497		3498	3499		3200	3501		3502	3503	3504		3505	3506		3507			3508				3209	3510	3511	3512	3513		3514
277 - 465		46 - 234	148 - 291		3 - 158	2 - 214		1 - 183	248 - 460	170 - 487		53 - 259	191 - 346		2 - 205			482 - 631		-		262 - 444	107 - 427	121 - 348	118 - 261	483 - 692		64 - 342
810		811	812		813	814		815	816	817		818	819		820			821				822	823	824	825	826		827
575620		526594	577593		577633	577636		575941	575943	226525		885775	695656		874359			582595				968821	867662	679215	575914	159/98		711640
HPMFB37 575620		HPMFB75	HPMFB84		HPMFE35	HPMFE60		HPMFE73	HPMFH21	HPMFJ50		HPMF155	HPMFL08		HPMFL80			HPMFM29				HPMFN12	HPMFP05	HPMFP30	HPMFP38	HPMFQ84	•	HPMFS41

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		H0031: 4	H0031: 2	H0031: 2	H0031: 2	H0031: 2	H0031:2		H0031: 5 and L0142:	1.	L0774: 4, H0031: 2,	L0439: 2, L0435: 1,	L0803: 1 and H0670: 1.	H0031: 2	H0031: 2			H0031: 2	H0031: 4	H0031: 2	H0031: 9 and L0758:	1.	H0031: 2		H0031: 2	H0031: 3	H0031: 3, H0651: 1,	LU/31: 1 and LU/58: 1.
Glu-17 to Glu-22,	Trp-36 to Gln-44.		Tyr-24 to His-32.	Lys-1 to Gly-7.	Phe-15 to Asn-20.	Gln-10 to Gln-20.	Arg-18 to Val-24,	Glu-43 to Gly-54.	Asp-19 to Ser-30.		Leu-34 to Cys-41.				His-1 to His-7,	Ser-16 to Glu-22,	Phe-65 to Ser-71.	Arg-28 to Leu-37.	His-39 to Thr-44.		Gln-6 to Trp-17.		Arg-18 to Ser-29,	Gly-62 to Tyr-78.			Gly-1 to Ser-16,	Ser-3 / to Lys-42,
		3515	3516	3517	3518	3519	3520		3521		3522			3523	3524			3525	3526	3527	3528		3529		3530	3531	3532	
		28 - 180	169 - 300	172 - 312	27 - 167	204 - 365	16 - 246		3 - 152		284 - 412			158 - 355	3 - 218			3 - 206	88 - 243	180 - 320	55 - 381		1 - 306		30 - 353	176 - 340	1 - 564	
		828	829	830	831	832	833		834		835			836	837			838	839	840	841		842		843	844	845	
		916662	575894	652097	575911	956263	590096		932529		275908			867657	577642			577603	968359	506379	920313		703835		867648	873392	954823	
		HPMFT04	HPMFU89	HPMFV28	HPMFV82	HPMFV88	HPMFW25 960065		HPMFW78		HPMFX13			HPMFX65	HPMFX70			HPMFX92	HPMGA83	HPMGB22	HPMGC07 920313		HPMGC23		HPMGE31	HPMGE95	HPMGF06	

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		_							_				_				138079,	138079,	139191,	142959,	15388	180104,	600994,	601649		
		·			20												7p15-p12									
	H0031: 2			H0031:2	H0031: 2	H0031: 3	H0031: 2	H0031: 2	H0031: 3, L0757: 3,	L0803: 2 and L0766: 1.		H0031: 3 and L0754:	L0805: 5, H0031: 2,	L0749: 2, L0766: 1,	L0776: 1 and L0779: 1.	H0031: 2	H0031: 2								H0031: 2	H0031: 2
Arg-44 to Val-50.	Tyr-1 to Ile-7,	Cys-20 to Asp-33,	Leu-40 to Ser-45.				Trp-40 to His-45.		His-18 to Cys-23,	Glu-33 to Phe-40,	Thr-42 to Trp-47, Cys-53 to Glu-63.		Ala-1 to Asn-16,	Lys-45 to Thr-54.			•									
	3533			3534	3535	3536	3537	3538	3539			3540	3541			3542	3543			•					3544	3545
	226 - 92			267 - 398	62 - 283	79 - 219	147 - 359	223 - 369	159 - 488			347 - 529	2 - 223			189 - 356	24 - 224								46 - 111	230 - 367
	846			847	848	849	850	851	852			853	854			855	856								857	858
	577615			577641	924521	920326	864040	575924	671936			730751	854081			577599	506235								575951	796440
	HPMGF32			HPMGH16			HPMGJ93		HPMGK59			HPMGK62	HPMGM33			HPMGM54	HPMGR80								HPMGS09	HPMGS24

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								19q12	1																			
H0031: 2	H0031: 2	H0031: 4	H0031: 2	H0031: 2				H0031: 2		H0031: 2	H0031: 2, L0769: 1	and L0439: 1.	H0031: 3		H0031: 2	H0031: 2			H0031: 3	H0031: 1 and H0644:	1.	H0644: 2		H0644: 3	H0644: 2		H0644: 2	H0644: 2 and H0615:
Ser-26 to Trp-32.	His-1 to Glu-6.		Asp-23 to Pro-34.	His-1 to Gln-15,	Arg-37 to Asp-48,	Ser-63 to Pro-77,	Gly-79 to Lys-85.	Ser-2 to Pro-27,	Leu-38 to Asn-52.		Lys-31 to Thr-37.		Gly-1 to Ser-8,	Ile-41 to Ile-49.		Arg-13 to Ala-23,	Met-27 to Gly-36,	Ser-109 to Leu-116.	Arg-1 to Thr-20.			Leu-39 to Ser-46,	Gly-87 to Pro-94.	Gln-42 to Asp-50.	Ile-1 to Gln-10,	Ser-20 to Gln-27.		Glu-15 to Arg-20.
3546	3547	3548	3549	3550			:	3551		3552	3553		3554		3555	3556			3557	3558		3559		3560	3561		3562	3563
1 - 123	35 - 301	88 - 210	38 - 277	3 - 257	•		•	3-314		142 - 294	289 - 552		1 - 147		46 - 198	1 - 441			159 - 1	1 - 267		2 - 370		136 - 330	207 - 425		1 - 171	166 - 276
859	098	861	862	863				864		865	998		298		898	698			870	871		872		873	874		875	876
970815	968364	582596	577635	920309				575903		970813	2421295		531382		577631	928433			760426	914759		930844		930806	867587		965642	930873
HPMGT67	HPMGV12	HPMGV15	HPMGV59	HPMGW48 920309				HPMGX23		HPMHA80	HPMHB74		HPMHB83		HPMHC74	HPMHD66 928433			HPMHD71	HPMJC01		HPMJC05		HPMJD88	HPMJE84		HPMJF76	HPMJI81

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								126650,	126650,	154276,	173360,	173360,	602136,	602136,	602136,					
								7q22												
1.	AR089: 21, AR061: 15 H0644: 2	H0644: 2	H0644: 2	H0644: 3	H0644: 3	H0644: 2, L0794: 1 and L0748: 1.	H0644: 2	AR061: 2, AR089: 1	L0666: 3, L0777: 2,	L0608: 2, H0046: 1,	H0031: 1, H0644: 1,	L0803: 1, L0783: 1,	H0672: 1, L0740: 1,	L0750: 1 and L0755: 1.		H0644: 2 and L0589:	1.	H0644: 3 and L0471:	H0644: 2 and L0527:	H0644: 2
		Ala-1 to Phe-6, Thr-32 to Gly-38, Pro-54 to Gln-73.	Arg-37 to Asn-50, His-81 to Gln-89.	Tyr-15 to Tyr-21.		Ser-8 to Phe-26.		Arg-15 to Gln-21,	Gln-47 to Ile-53,	Lys-58 to Asp-72.						Arg-2 to Tyr-7.			Leu-36 to Glin-52.	Arg-43 to Ser-48.
	3564	3565	3566	3567	3568	3569	3570	3571								3572		3573	3574	3575
	84 - 470	1 - 222	160 - 429	204 - 353	3 - 203	287 - 454	3 - 125	64 - 567								222 - 545		343 - 543	173 - 421	155 - 370
	877	878	879	880	881	882	883	884								885		988	887	888
	946876	922649	917419	958001	25976	969478	957997	894416							,	867573		867533	918123	922621
	HPMJN59	HPMJO46	HPMJR02		HPMJY55	HPMKB19	HPMKI53	HPMKM81								HPMKN43		HPMLE04	HPMLK02	HPMLK76 922621

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																											20
H0544: 1, H0644: 1	and L0754: 1.	H0644: 2	H0111: 2	H0032: 2 and L0759:	1.	H0032: 2			H0032: 2		L0758: 2, H0688: 1	and H0032: 1.	H0032: 2	H0032: 2		H0032: 2	H0032: 2	H0032.2	H0032.2	H0032: 2	H0032-2	H0032: 2	H0211.2	H0212: 2 and H0032-	1.	H0032: 1 and H0212:	L0777: 3, L0662: 1,
Gly-4 to Ser-11.			Ser-8 to His-17.	Gly-8 to Glu-21,	Val-23 to Ser-37.	Cys-19 to Ser-29,	Ser-31 to Gly-37,	His-48 to Gln-53.	Ser-12 to Gln-18,	Arg-23 to Gly-30.	Gln-13 to Ile-22,	Val-34 to Ser-39.	Arg-23 to Glu-35.	lle-6 to His-11,	Gly-24 to Val-29.		Ser-13 to Asn-20.	Ser-19 to Ser-25.	Leu-39 to Ile-47					Gln-1 to Glv-7.	Thr-22 to Gly-31.		Arg-8 to Phe-20,
3576		3577	3578	3579		3580			3581		3582	٠	3583	3584		3585	3586	3587	3588	3589	3590	3591	3592	3593		3594	3595
1 - 285		53 - 211	44 - 226	3 - 329		87 - 299			191 - 27		1 - 183		98 - 241	91 - 330		192 - 299	178 - 336	2 - 121	3 - 296	3-176	23 - 169	156 - 269	3 - 188	258 - 419		127 - 273	295 - 495
889		890	891	892		893			894		895		968	897		868	899	006	901	902	903	904	905	906		206	806
690836	2000	963037	509490	971652		585489			536630		968692		655537	655587		655693	960316	655725	939490	964909	655554	968521	666295	849081		708761	967944
HPMLL74	O STATE OF WALL	HPMLW 10	HPMSF86	HPRAE13		HPRAN84			HPRAU45		HPRAZ10		HPRBA65	HPRBE36		HPRBL91	HPRCB11	HPRCB21			HPRCN41	HPRCU13	HPRSB16	HPRTL26	\neg	HPRTP73	HPVAB11

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										199	•																	
L0803: 1, L0787: 1,	H0672: 1, S0013: 1 and	L0747: 1.	S0013: 2		L0662: 1, L0774: 1,	C0659: 1, H0672: 1,	S0013: 1 and L0754: 1.	T0069: 1 and S0013: 1.		S0044: 2 and H0618: 1.19q			S0044: 2	AR061: 7, AR089: 3	S0044: 2, L0747: 2,	.0777: 2 and L0480: 1.	S0044: 2		S0044: 2			S0044: 2	S0044: 2			S0044: 2	S0044: 2	S0044: 1 and S0396: 1.
Gly-36 to Lys-42.			Arg-4 to Ser-20,	Lys-50 to Glu-60.	Ile-22 to Asn-28.		<u> </u>	Ser-3 to Gly-11,	Thr-42 to Gly-52.	Arg-39 to Asp-55,	Ala-93 to Ser-99,	Pro-102 to Ser-111.	Asn-6 to Trp-17.	His-18 to Pro-24.		I	Ala-7 to Thr-13,	Arg-43 to Arg-49.	Arg-44 to His-50,	Gln-62 to Arg-69,	Gln-80 to Trp-87.	Phe-24 to Thr-29.	Glu-10 to Gln-19,	Gln-22 to Lys-27,	Pro-37 to Val-44.	Leu-4 to Lys-9.	Ser-15 to Ser-22.	Leu-43 to Leu-48.
			3596		3597			3598		3599			3600	3601			3602		3603			3604	3605			3606	3607	3608
			108 - 287		2 - 145			204 - 362		116 - 550			19-156	655 - 266			66 - 227		14 - 289			197 - 367	2 - 157			236 - 373	215 - 415	513 - 656
			606		910			911		912			· 913	914			915		916			917	918			919	920	921
			655578		753744			525537		655691			655527	908450			655733		867289			657484	655614			655560	655577	514113
			HPVAF49		HPVAF69			HPVAH36		HPWAF85			HPWAH48	HPWAS77			HPWBA33		HPWBO84			HPWCA53	HPWCJ27				HPWCJ82	HPWDA73

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-	-	+	+	+	-	-					_		·				_	_	<u> </u>								
	H0648: 1 and S0044: 1.	S0044: 2 and I 0748: 1	S0174: 2	S0168: 2	H0618: 1, H0546: 1	and H0040; 1.	L0///: 3, H0546: 2, L0803: 2, L0755: 2	L0637: 1, L0662: 1.	L0794: 1, H0659: 1 and	L0758: 1.	L0800: 2, L0764: 2,	L0779: 2, H0546: 1,	L0351: 1, L0769: 1,	L0771: 1, L0438: 1,	H0660: 1, L0439: 1 and	L0592: 1.	L0731: 3, H0545: 2,	L0744: 2, L0021: 1,	H0546: 1, L0769: 1,	L0666: 1 and L0665: 1.	L0777: 2, L0005: 1,	H0546: 1, H0328: 1,	L0761: 1, L0373: 1,	L0527: 1, L0526: 1,	L0754: 1, L0752: 1,	L0755: 1, L0731: 1 and	L0608: 1.
	Gln-1 to Gly-8, Lys-15 to Ser-23.										Ser-13 to Ser-19,	Arg-37 to Gly-48.					-				Gln-1 to Phe-10.						
5344	3609	3610	3611	3612	3613	3614	2014				3615						3616				3617						
53 - 373	15 - 164	193 - 342	74 - 268	138 - 254	2 - 409	638 180	60t - 000				1-150						2 - 307				611 - 826						
2657	922	923	924	925	926	7.00	177				928						929				930						
716228	961529	537333	655713	655591	710354	705322	776001			1	/85439					7,00	99011/				868007					_	1
	HPWDA86 961529	HPWDD72	HPWSB35	HPZAB38	HSWAC73	HSWAD39) o de di na	HSWBD86 785439						HSWBJ40			_	HSWBO34						

																	600964,	602026							
																	10p12-p11.2								
H0618: 2, H0038: 1	and H0616: 1.		H0038: 3	H0038: 2	H0038: 3, L0747: 2,	H0618: 1, L0665: 1,	L0779: 1 and L0758: 1.			L0758: 6, H0038: 3,	L0779: 1, L0639: 1 and L0779: 1.		H0038: 11, L0758: 7,	L0753: 2 and H0616: 1.	H0038: 1 and H0616:	1.	H0038: 12, H0616: 6,	H0593: 1, L0439: 1 and	H0038-11 1 0758-7	L0753: 2 and H0616: 1.		H0616: 4, L0758: 2	and H0038: 1.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	H0038: 1 and H0616: 1.
Gln-1 to Met-10,	Met-16 to Lys-21,	Thr-26 to Met-32.	Pro-53 to Asn-59.	Arg-16 to Thr-28.	Cys-5 to Ser-11,	Pro-13 to Thr-18,	His-28 to Arg-33,	Arg-40 to Arg-45,	Pro-52 to Arg-57, His-66 to Gln-71.			Arg-1 to Pro-9.	Thr-5 to Glu-11.		Val-6 to Lys-13.				Gln-11 to I.vs-24	His-60 to Leu-67,	Arg-85 to Ser-92.	Glu-13 to Trp-29,	Thr-31 to Thr-44,	11, 12, 22, 12, 22, 1	
3618			3619	3620	3621					3622		5345	3623		3624		3625		3626			3627		2670	3028
34 - 513			1-315	50 - 187	1 - 246					87 - 326		330 - 91	238 - 116		199 - 104		423 - 202	•	3 - 626			10 - 324		2 120	7 - 130
931			932	933	934					935		2658	936		937		938	•	939			940		041	741
923070			537136	504353	961232					835805		954433	537271		787500		536769		963538			966113		702270	07550/
HTEAA54		1	Т		HTEAD95					HTEAF07			HTEAF26		HTEAG50	┱	HTEAK57		HTEAL28			HTEAP91		HTTADOA	

L0758: 3, H0616: 2 and H0038: 1.	L0758: 3, H0038: 2, L0794: 2 and L0779: 1.	H0038: 2 and H0616: 1.	AR054: 7, AR051: 2, AR089: 1, AR061: 0 L0663: 2, H0038: 1, H0672: 1 and L0779: 1.	H0038: 2	H0038: 2 and H0616: 1.	H0038: 7, H0253: 1,	110010: 1 alla 20101: 1:				H0038: 2, H0328: 1 and H0616: 1.	H0038: 2 and H0616: 2.	H0038: 1 and H0616: 1.	H0038: 2, H0040: 2 and L0758: 1.	H0038: 2	AR061: 1, AR089: 0
Lys-17 to Lys-26.	Tyr-14 to Ser-19.		Pro-32 to Asn-39.	Asn-28 to Cys-34.	Pro-44 to Ser-50.	Ser-86 to Thr-97,	Glu-168 to Ser-182,	Thr-190 to Ser-198,	Glu-208 to Tyr-213,	Ser-230 to Val-237.	Glu-38 to Ala-46.	Ser-39 to Val-49.	Lys-1 to Asn-14.	Lys-24 to Val-32.		He-11 to Trp-17,
3629	3630	3631	3632	3633	3634	3635					3636	3637	3638	3639	3640	3641
368 - 520	280 - 143	286 - 501	1 - 321	13 - 252	3 - 152	3 - 971					373 - 540	185 - 334	106 - 552	201 - 359	250 - 417	3 - 326
942	943	944	945	946	947	948					949	950	951	952	953	954
927010	679390	793441	887782	967959	779134	779265					742218	693377	953904	854052	508150	960427
HTEAV43 927010	HTEAY67	HTEAZ54	HTEBC74	HTEBD35	HTEBD40	HTEB178					нтевр39	HTEBS30	HTEBS77	HTEBS80	HTEBX62	HTEBY08

H0038: 4	H0038: 2	H0616: 3 and H0038:					H0038: 2 and H0616:	H0253: 1, H0038: 1	and L0758: 1.	H0038: 2 and H0616:	1.	H0038: 4 and H0616: 1.	H0038: 2 and L0779:	1.	AR061: 596, AR089:	427	H0038: 2, H0616: 1	and L0439: 1.	AR061: 49, AR089: 45	H0038: 2	H0038: 2, L0748: 2,	L0749: 2, L0769: 1,	L0776: 1, L0659: 1 and	L0663: 1.	H0038: 2
Arg-52 to Glu-65.	Lys-66 to Thr-72.	Arg-1 to Phe-12, Met-34 to I.ys-39	Lys-46 to Ser-56,	Pro-72 to Lys-79,	Lys-101 to Asp-107,	Trp-139 to Lys-148.		Glu-9 to Arg-24,	Arg-32 to Thr-40.			His-27 to Leu-39.	Glu-8 to Lys-17.			Arg-117 to Cys-126.									Arg-22 to Tyr-28, Ser-78 to Arg-87.
	3642	3643					3644	3645		3646	2,00	3647	3648		3649				3650		3651				3652
	1 - 231	1 - 546					106 - 243	1 - 435		2 - 121	,	1 - 204	111 - 389		1 - 387				792 - 406		96 - 248				3-311
	955	926					957	856		656	0,0	960	196		962				963		964				965
	526281	923026					711523	967340		958381	20000	50/053	764416		911369				947605		098802				870692
	HTEBY15	HTEBY28			٠		HTEBY41	HTEBY61		HTEBZ21	TIME CALL	HIECALS	HTECA16		HTECA21				HTECA32		HTECA51				HTECA83

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H0038: 3	H0253: 1 and H0038:	H0038: 2 and H0616: 2.	H0038: 1 and H0616:	H0038: 4, H0616: 3, L0758: 3 and L0779: 1.	H0038: 2 and H0616:	H0038: 2 and H0616:	H0038: 2	H0038: 2	H0038: 2	H0618: 6, H0253: 5, L0758: 5, L0768: 4, H0411: 2, L0779: 2, L0151: 1, L0697: 1 and S0398: 1.	H0038: 2
Tyr-1 to Arg-6, lle-49 to Val-55.		Arg-1 to Arg-11, Arg-55 to Ser-70, Ser-76 to Gly-81.		Arg-15 to Leu-21, Ala-29 to Glu-34.	Asn-9 to Asn-16, Asp-60 to Lys-68.	Gln-18 to Trp-29, Arg-46 to Val-52.	Ala-10 to Thr-17, Glu-19 to Glu-28, Thr-36 to Trp-44, Ile-47 to Gly-54, Ala-61 to Pro-69.	Pro-6 to Cys-11, Pro-77 to His-92.		Arg-1 to Ala-35, Gly-41 to Lys-61.	Val-9 to His-36.
3653	3654	3655	3656	3657	3658	3659	3660	3661	3662	3663	3664
32 - 271	61 - 270	763 - 1005	1 - 147	203 - 463	84 - 287	37 - 459	1 - 297	138 - 491	154 - 411	2 - 508	1 - 141
996	296	896	696	970	971	972	973	974	975	976	226
921070	971673	963353	508143	844558	790937	796820	508138	959874	508108	973163	518124
HTECB21	HTECC13	HTECC20	HTECC37	HTECC38	HTECC66	HTECC80	HTECC85	HTECC96	HTECD17	HTECD18	HTECD36

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H0038: 2, L0794: 2,	L0779: 2, H0616: 1 and	L0758: 1.	H0616: 4, H0038: 2	and L0758: 1.			H0038: 2	H0038: 8, L0758: 5,	L0794: 4, H0616: 2,	L0763: 1 and L0777: 1.	L0766: 2, H0038: 1	and H0616: 1.	H0038: 2		H0038: 2	H0038: 2		H0038: 2			H0616: 2 and H0038:					H0038: 2	H0038: 2
His-8 to Arg-15,	Lys-19 to Lys-36.		Gly-2 to Ala-8,	ος ώ	Pro-23 to Ser-34,	Pro-45 to Asp-55.	Ile-1 to Gly-9.	Ser-29 to Gly-35,	Asp-85 to Val-92.				Ile-1 to Arg-13,	Glu-25 to Leu-31.		Glu-1 to Thr-6,	Glu-30 to Met-43.	Gly-2 to Arg-19,	Arg-24 to Gly-29,	Lys-48 to Arg-54.	Asn-37 to Val-42,	Lys-82 to Glu-95,	Glu-100 to Leu-105,	Tyr-114 to Ser-120,	Leu-129 to Lys-134.		Gln-61 to Cys-76,
3665			3666				3667	3998			3669		3670		3671	3672		3673			3674					3675	3676
3 - 161			3 - 275				2 - 286	2 - 286			2 - 352		2 - 253		3 - 296	123 - 257		3 - 164			2 - 418			•		141 - 329	1 - 423
826			626				980	981			885		983		984	985		986			287					988	686
527207			727422				620494	764830			790894		522983		522984	522964		522966			964734					522973	925527
HTECD62			HTECD75				HTECE09	HTECE44			HTECE45		HTECE69		HTECE91	HTEDF13		HTEDF23			HTEDF57					_	HTEDG16

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													136350,	152760,	173370,	180100,	182900,	185430,	270800,	277700,	600617
													8p12-p11.2								
H0616: 2 and H0038:	H0038: 3	H0038: 2, H0616: 2, L0769: 1, L0794: 1,	H0038: 1 and H0616:	AR061: 14, AR089: 12	H0038: 1, H0616: 1 and	H0038: 2, H0616: 2,	L0740: 1 and L0758: 1.	H0038: 3	T 0740: 2 TINC1E: 1	H0428: 1, H0038: 1.	L0662: 1, L0805: 1,	L0661: 1 and L0751: 1.	H0038: 2 and H0616:	 i			-				
	Arg-1 to Glu-9, Thr-42 to Arg-49.		Asn-1 to Ser-14, Glu-103 to Gly-108.	Glu-7 to Lys-13,	His-83 to Pro-91, Ser 106 to The 111	Lys-18 to Arg-24,	Pro-30 to Thr-35.	110-40 to 1111-47.					Pro-31 to Ala-40.								
3677	3678	3679	3680	3681		3682	2683	3684	3685	Con			3686	•	•						
169 - 324	3 - 170	33 - 206	1-411	121 - 705		65 - 544	274 - 549	43 - 165	3 - 305				3 - 257		-						
066	991	992	993	994		995	966	997	866)			666								
761752	522764	522765	957762	921243		932292	536477	519940	771404				960303								
HTEDG34	HTEDH21	HTEDH22	HTEDH54	HTEDI02		HTEDI16	HTEDI82	T	7			_	HIEDM08								

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		8:		9:				3							·						pur		6:			
H0038: 2	H0038: 2	H0553: 1 and H0038: 1.	H0038: 4	H0038: 1 and H0616:	1.	H0038: 2	H0038: 2	AR061: 7, AR089:	L0758: 4, H0038: 2	and H0616: 1.	H0616: 2, H0038: 1	and L0758: 1.			H0038: 2	L0070: 2, H0038: 1	and H0016: 1.	H0038: 2	•	L0731: 6, L0758: 3,	H0618: 1, H0038: 1 and	L0794: 1.	H0038: 2 and H0616:	2.	H0038: 2	H0038: 3, L0438: 2,
Pro-1 to Trp-9, Pro-25 to Lys-31.	Arg-8 to Ser-20.					Ser-9 to Ala-15.					Pro-11 to Cys-28,	Ser-41 to Leu-55,	Pro-58 to Asn-63,	Phe-67 to Ser-77.				Ala-25 to Thr-32,	Lys-46 to Gly-52.	Ile-2 to Gly-8.			Lys-16 to Ser-22.			Phe-37 to Ser-49.
3687	3688	3689	3690	3691		3692	3693	3694			3695				3696	3697		3698		3699			3700		3701	3702
101 - 271	3 - 164	130 - 231	1 - 321	68 - 337		152 - 322	1 - 345	3 - 206		:	53 - 475				318 - 494	88 - 171		53 - 238		137 - 706			2 - 730		3 - 164	324 - 566
1000	1001	1002	1003	1004		1005	1006	1007			1008				1009	1010		1011		1012			1013		1014	1015
870711	530592	964379	870675	870548		839532	536821	530589			795332				530586	761585		530451		802028			932315		921114	523959
HTED031	HTEDO51	HTEDO59	HTEDP15	HTEDP31		HTEDP32	HTEDP83	HTEDQ30	,		HTEDQ72				HTEDQ83	HTEDR71		HTEDR91		HTEDU45			HTEDU48		HTEDV02	HTEDX22

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													12 11 12						-			
H0616: 1 and L0439: 1.	H0038: 2	H0616: 2 and H0038:	H0616: 3, L0759: 3, H0038: 1, L0774: 1 and	L0777: 1.	H0038: 2	H0169: 2 and H0038: 1.	H0038: 2 and L0779:	H0038: 5 and H0618:	1.				H0038: 2 and H0616:	HO030.9 T 0750.9	and L0779: 1.	H0038: 2				H0038: 3		H0038: 2
	Arg-1 to Asn-13, Met-37 to Pro-47.	Lys-28 to Lys-41.	Asp-67 to Asn-72, Pro-113 to Gly-121.	•	Glu-11 to Gln-18.	His-1 to His-10.	Gln-9 to Asn-26.	His-19 to Lys-55,	Pro-72 to Ser-84,	Ser-92 to Gly-104,	Ser-111 to Asp-124,	Thr-129 to His-141.	Ser-1 to Gly-14, 1 ye-28 to Ser 37	233-20 to 001-01.		Pro-5 to Gln-13,	Thr-40 to Arg-45,	Thr-52 to Gln-57,	Phe-59 to Gly-64.	Glu-9 to Val-15,	Glu-24 to Pro-30.	Pro-8 to Leu-13.
	3703	3704	3705		3706	3707	3708	3709					3710	3711	11/6	3712				3713		3714
	172 - 357	3 - 140	151 - 762		189 - 326	86 - 199	271 - 549	100 - 615					1 - 216	207 384	105 - 707	88 - 345				72 - 215		2 - 328
	1016	1017	1018		1019	1020	1021	1022					1023	1024	1701	1025				1026		1027
	530452	771505	922964		530580	925399	523962	924818					21896	530157	10100	924840				507814		524059
	HTEDX55	HTEDY38	HTEDY54		HTEDY57	HTEEA03	HTEEB18	HTEEB33					HTEEC10	HTFFFK		HTEEF31				нтеензі		HTEEU23

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H0038: 1 and H0616:	1.	H0038: 3		H0038: 2 and L0779:	1.		H0038: 2	H0038: 4, L0779: 2,	L0758: 2 and L0618: 1.	H0038: 2	H0038: 2	H0616: 2 and H0038:	1.	H0038: 2 and H0616:	H0038: 2	H0038: 1 and H0616:	1.	H0038: 4 and H0616:	L0776: 3 and H0038: 2.	H0038: 3	H0038: 1 and H0616: 1.	H0038: 2	H0616: 4 and H0038:
Pro-32 to Asp-39,	Lys-57 to Gly-65.	Ser-1 to Ser-8,	Ser-11 to Trp-19.	Asn-2 to Lys-8,	Lys-16 to Asp-23,	Arg-28 to His-51.	Pro-24 to Ala-38.								Phe-3 to Val-24.				Met-41 to Ile-46.	Arg-1 to Gln-22.			
3715		3716		3717			3718	3719		3720	3721	3722		3723	3724	3775	2/2	3726	3727	3728	3729 ·	3730	3731
128 - 343		106 - 240		136 - 393			48 - 311	55 - 507		1 - 147	103 - 222	298 - 429		266 - 493	150 - 73	240-416	240 - 410	3 - 260	124 - 321	119 - 352	1 - 168	118 - 195	273 - 662
1028		1029		1030			1031	1032		1033	1034	1035		1036	1037	1028	1038	1039	1040	1041	1042	1043	1044
530199		698315		960127			523957	917206		530095	935982	771355		959854	576272	000000	0/70//	698659	507219	711399	836010	920604	787550
HTEEU52		HTEEU88		HTEEU92			HTEEV53	HTEEW73		HTEEZ95	HTEF153	HTEFM31		HTEFN15	HTFFO32	TTEEOTE	HIEFO/0	HTEFP14	HTEFP50	HTEFP61	HTEFS60	HTEFU46	HTEFW55

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																										602782		
				<u></u>			2q37.3																			11925	!	
H0038: 2 and H0616:			H0038: 1 and H0616:	1.		H0038: 3	H0038: 3	H0038: 15, L0758: 5,	H0618: 1, H0253: 1,	L0151: 1 and L0768: 1.	H0038: 2	H0038: 2, L0779: 2	and L0758: 2.			H0038: 1 and H0616:	<u>.</u>		H0038: 2	H0038: 2	H0038: 1 and H0616:	-	H0038: 2	H0038: 2	H0038: 2	AR089: 1, AR061: 0 11q25	H0038: 2	H0038: 2
Arg-1 to Asp-7,	Trp-24 to Cys-29,	Ser-68 to Ile-73.	Arg-3 to Leu-10,	Gln-34 to Glu-41,	Ile-48 to Ser-53.	Lys-1 to Thr-6.		Val-11 to Ser-19.			Lys-7 to Tyr-19.	Lys-6 to Lys-16,	Arg-44 to Gln-51,	Asn-57 to Phe-63,	Ser-84 to Trp-89.	Gln-6 to Ser-11,	Ser-15 to Gly-31,	Ser-69 to Lys-93.	Asn-1 to Pro-9.	Thr-1 to Ala-7.	Glu-25 to Trp-31,	Lys-49 to Ser-54.			Pro-13 to Lys-25.	Ala-15 to Tyr-24,	His-32 to Asp-39.	Asn-38 to Glu-47.
3732			3733			3734	3735	3736			3737	3738				3739			3740	3741	3742		3743	3744	3745	3746		3747
35 - 358			1 - 279			268 - 35	2 - 139	2 - 1519			190 - 306	2 - 298				190 - 468			2 - 334	210 - 407	76 - 267		144 - 335	2 - 217	3 - 143	84 - 263		1 - 183
1045			1046			1047	1048	1049			1050	1051				1052			1053	1054	1055		1056	1057	1058	1059		1060
528019			190196			842047	<i>LL</i> 0959	964198			715583	503300				869296			228017	614242	099962		954115	528007	520046	280529		520037
HTEFW56			HTEFW78			HTEFX53	HTEGA13	HTEGA17			HTEGA43	HTEGA47				HTEGD11			HTEGE44	HTEGF78	HTEGF95		HTEGG07	HTEGG61	HTEGK51	HTEGM38		HTEGN63

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AR089: 1, AR061: 0 H0038: 2, L0745: 2	20794: 15. H0616: 13	H0038: 7, H0253: 1 and	L0758: 1.	H0038: 2		H0038: 2	H0038: 3	H0038: 2	H0038: 2, L0758: 2,	H0294: 1 and H0616: 1.	H0038: 2	H0038: 3 and L0758:	H0038: 2 and L0758:		H0038: 3 and H0616:	H0253: 8, H0038: 2,	H0179: 1, L0151: 1 and	20758: 1.	H0038: 2 and H0616:	H0038: 8. L0758: 5.	L0794: 4, H0616: 2,	L0763: 1 and L0777: 1.	H0038: 2
Pro-12 to Tyr-21.	Lvs-28 to Lvs-34.			Val-3 to Ser-8,	Cys-35 to Lys-45.	Glu-8 to Ile-22.			Pro-35 to Glu-43,	Gly-52 to His-57.		Arg-1 to Thr-11.		2	Ala-1 to Tyr-14, Thr-28 to Ser-60.	,	Ala-91 to Thr-97.			4	H	1	Thr-14 to Gln-20,
3748	3749			3750		3751	3752	3753	3754		3755	3756	3757		3758	3759			3760	3761			3762
3 - 884	134 - 433			2 - 187		23 - 196	160 - 402	131 - 352	220 - 405		155 - 355	200 - 367	170 - 463		2 - 205	39 - 506			3 - 88	194 - 595			220 - 399
1061	1062			1063		1064	1065	1066	1067		1068	1069	1070		1071	1072			1073	1074			1075
932583	923059			298625		128656	871611	527914	458520		506653	820028	716783		520041	524053			573885	764831			959888
HTEGO05 932583	HTEG021	,		HTEGQ74		HTEGR56	HTEGR88	HTEGS16	HTEGS34		HTEGS93	HTEGT29	HTEGT33		HTEGU13	HTEGU32			HTEGU62	HTEGU93			HTEGV08

			3118504, 118504, 131242	139320, 139320,	139320, 139320, 602025, 602235													
			20q13.2-q13.3 118504 118504 131242															
	H0038: 1 and H0616:	L0758: 8, H0038: 3, H0618: 2, H0616: 2 and H0253: 1.	H0038: 2			H0038: 3 and H0616:	5.	L0758: 5, H0038: 3,	H0618: 1, H0616: 1,	H0038: 1 and H0616:	1.	H0038: 2	H0038: 5	H0038: 3	AR050: 13, AR051:	13, AR061: 3, AR054:	1, AR089: 1	L0/58: 5, H0616: 2
Cys-23 to Glu-31.	Tyr-12 to Phe-17, Pro-32 to Asp-39.		Ser-24 to Gln-30, Asn-38 to Leu-44, Pro-46 to Glu-59.			Gly-1 to Ile-7,	Pro-76 to Ala-82, Asn-86 to Ile-91	Asn-1 to Asp-9,	Pro-17 to Cys-23.	Arg-87 to Tyr-92.			Gly-23 to Lys-29.		Ser-32 to Thr-37,	Ser-161 to Cys-167.		
	3763	3764	3765			3766		3767		3768		3769	3770	3771	3772			
	80 - 418	234 - 449	1 - 243			1-351		200 - 556		2 - 388	0,0	91 - 312	90 - 350	198 - 326	719 - 84			
	1076	1077	1078			1079		1080		1081	000	7801	1083	1084	1085			
	822954	870240	573880			794350		783829		917214	070075	5/3849	870707	526704	973071			
	HTEGV60	HTEGV84	HTEGW41			HTEGW94 794350		HTEGX74		HTEGY01	TOTAL	HIEGY83	HIEHB07	HTEHC20	HTEHC47			

and H0038: 1.	H0616: 3 and H0038: 2.	H0038: 2	H0038: 1 and H0616:	H0616: 2, H0038: 1 and L0794: 1.		H0038: 3 and L0519: 1.	H0038: 2				H0038: 2 and H0616: 1.	H0038: 4	H0618: 1, L0023: 1, H0038: 1, H0616: 1 and	L0758: 3, H0038: 2 and L0747: 1.
	Thr-44 to Aia-49, Pro-60 to Arg-67, Asp-83 to Lys-95.	Ala-1 to Leu-9, Thr-11 to Gly-19, Arg-31 to Thr-39, Gln-44 to Ser-58.	Glu-57 to Pro-63.	Ala-2 to Asn-7, Glu-47 to Ile-62,	Pro-71 to Trp-81, Gly-83 to Glu-88.	Ser-1 to Arg-6, Gly-16 to Glu-26.	Gln-1 to Asp-17,	Ser-51 to Arg-63,	Pro-70 to Asp-78, Val-86 to Asn-93	Pro-100 to Asp-105.		Ala-1 to Tyr-6, Ala-88 to Asp-95.		His-16 to Ser-22, Ala-77 to Glu-83.
	3773	3774	3775	3776		2117	3778				6228	3780	3781	3782
	74 - 358	2 - 256	2 - 223	143 - 652		194 - 301	3 - 329		_		201 - 332	2 - 436	27 - 695	262 - 534
	1086	1087	1088	1089		1090	1001				1092	1093	1094	1095
	866596	573882	795264	784926		932312	790342				667224	836999	933624	935984
	нтенс60	HTEHC78	нтенв60	HTEHE67		нтене78	HTEHE91				HTEHF13	HTEHF66	HTEHG44	HTEHI06

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																	•									
AR089: 5, AR061: 5 H0038: 4	H0038: 2	H0038: 2 and H0616:	H0038: 3	H0038: 2	H0038: 4	H0038: 2	H0038: 2		H0038: 2				H0616: 2, H0038: 1	and T0069: 1.								H0038: 2 and H0616:	2.	L0758: 3, H0038: 2,	H0616: 2 and L0794: 1.	
	Arg-1 to Gly-9, Pro-50 to Ala-56.		Lys-9 to Pro-14.		Thr-16 to Met-39.		Gln-2 to Leu-8,	Asp-42 to Gly-47.	Glu-17 to Trp-27,	Leu-29 to Phe-34,	Leu-56 to Arg-61,	Asn-/4 to Gly-83.	Pro-9 to Asp-16,	Gln-30 to Gln-36,	Pro-69 to Ile-74,	Val-78 to Pro-87,	Ala-99 to Lys-112,	Lys-117 to Gly-124,	Lys-130 to Val-147,	Ala-151 to Phe-156,	Lys-180 to Asp-186.	Glu-13 to Pro-27,	Leu-30 to Arg-37.	Lys-5 to Glu-14,	Arg-53 to Lys-60,	Met-77 to Gln-83.
3783	3784	3785	3786	3787	3788	3789	3790		3791				3792			٠						3793		3794		
216 - 458	3 - 350	1 - 282	1 - 330	136 - 249	2 - 301	2 - 274	73 - 231		3 - 404				63 - 677									66 - 215		37 - 285		
1096	1097	1098	1099	1100	1101	1102	1103		1104				1105									1106		1107		
526687	533960	922559	870629	530749	660875	771432	273866		573859	•	•		787521									920625		967443		
HTEHI14	HTEHI54	нтен162	нтен193	HTEH164	HTEHK40	HTEHK70	HTEHK81		HTEHL96				HTEHO56									HTEHP02		HTEHP20		

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																					<u></u>						
H0038: 3	H0038: 2	H0616: 2, H0038: 1 and L0758: 1.	H0038: 2					H0038: 2	AR061: 5, AR089: 2	H0038: 2	H0038: 2, H0616: 2	and L0758: 2.	H0038: 1 and H0616:		H0038: 2	AR061: 8, AR089: 3	L0780: 3, L0759: 3,	H0038: 2, L0779: 2,	H0673: 1, L0803: 1,	L0804: 1, L0666: 1 and	H0648: 1.	H0038: 1 and H0616:	•••		H0038: 2	H0038: 3, L0740: 2	and L0748: 1.
Arg-2 to Arg-17.	Glu-18 to Ser-26.	•	His-1 to Ser-8,	Asp-15 to Gln-50,	Val-54 to Ser-67,	Glu-76 to Lys-86,	Ala-90 to Arg-105.	Phe-43 to Glu-49.	Gly-70 to Gly-75.				Lys-1 to Arg-6,	Glu-23 to Arg-29.		Phe-32 to Asn-37,	Phe-73 to Tyr-79.	•				Ala-1 to Gly-8,	Ser-52 to Lys-58,	Leu-81 to Asn-86.			
3795	3628	3797	3798					3799	3800		3801		3802		3803	3804						3805			3806	3807	
7 - 126	210 - 434	1 - 135	3 - 320					3 - 197	1 - 237		61 - 234		109 - 294		76 - 276	1 - 357						2 - 466			181 - 453	2 - 163	
1108	1109	1110	1111					1112	1113		1114		1115		1116	1117						1118			1119	1120	
531505	573853	751866	273830					573841	529280		573813		786378		870083	920610						785652			924832	760552	
HTEHP50	HTEHP60	HTEHP67	HTEHP80					HTEHR83	HTEHS19		HTEHU20		HTEHU68		HTEHU73	HTEHV72					$\overline{}$	HTEHV86			HTEHW03	HTEHW21	

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							256850																			
							16q24.1	•																		
H0616: 3, H0038: 2 and L0758: 1.		L0758: 5, H0616: 3,	H0038: 2, L0794: 2 and	H0253: 1.	H0038: 2	H0038: 3	H0618: 2, H0038: 1	and L0783: 1.	H0038: 3	AR061: 7, AR089: 4	H0038: 4, H0616: 3,	L0747: 3, L0663: 2,	L0758: 2, H0369: 1,	H0428: 1, L0769: 1,	L0542: 1, L0809: 1,	L0666: 1, L0665: 1,	L0743: 1, L0777: 1,	L0731: 1 and S0456: 1.	H0038: 4 and H0616:	4		H0038: 2	H0038: 3	H0038: 2	H0038: 3 and H0616:	1.
Pro-4 to Lys-14, Thr-17 to His-22, Glu-25 to Arg-49, Pro-78 to Gly-85,	Pro-120 to Phe-126.	Arg-19 to Asn-24,	Gly-30 to Gln-47.							Gln-1 to Ser-10,	Arg-18 to Thr-27,	Arg-36 to Gln-65.							His-16 to Ser-21,	Ser-33 to Gly-60,	Asp-87 to Glu-95.	Ser-5 to Ile-17.	Leu-41 to Arg-55.		Thr-65 to Thr-71.	Arg-92 to Glu-99.
3808		3809			3810	3811	3812		3813	3814									3815			3816	3817	3818	3819	
15 - 410		3 - 215			84 - 212	17 - 292	2 - 343		10 - 225	3 - 308									173 - 457			139 - 249	135 - 326	58 - 192	3-311	
1121		1122			1123	1124	1125		1126	1127						-			1128			1129	1130	1131	1132	
924826		772643			668553	527167	829130		721831	660896									958355			573828	699470	573826	520113	
HTEHX03		HTEHX32			HTEHX51	HTEHX92	HTEIA60		HTEIA80	HTEIB14									HTEIF40			HTEIF68	HTEIG32	HTEIH70	HTEIJ17	

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H0038: 1, H0616: 1 and L0731: 1.	H0038: 1 and H0616: 1.	H0038: 1 and H0616: 1.	H0038: 2 and H0032: 1.	H0038: 2	H0038: 1 and H0616: 1.	AR061: 1, AR089: 0	L0794: 2, H0253: 1,	H0038: 1, H0616: 1,	L0789: 1 and L0779: 1.	H0038: 3	H0038: 2				H0616: 2 and H0038:	1.	H0038: 2			H0038: 1 and H0616: 1.
Ser-7 to IIe-13, Arg-21 to His-26, Met-33 to Ser-49.	Pro-38 to Gln-54.		His-8 to Ala-24, Thr-26 to Lys-33.	Thr-24 to Thr-39.	Thr-41 to Lys-46, Arg-57 to Trp-62.	Glu-13 to Thr-27.					Lys-15 to Lys-29,	Lys-36 to Thr-42,	Val-48 to Thr-55,	Gln-61 to Glu-80.	Gly-1 to Gly-6,	Leu-28 to Asn-33.	Gly-1 to Gly-6,	Pro-12 to Pro-17,	Arg-27 to Pro-40.	Asn-28 to Asn-33.
3820	3821	3822	3823	3824	3825	3826				3827	3828				3829		3830			3831
1 - 186	40 - 255	1-69	149 - 409	2 - 121	104 - 292	42 - 443				83 - 271	2 - 331				1 - 246		74 - 346			159 - 545
1133	1134	1135	1136	1137	1138	1139				1140	1141				1142		1143			1144
712520	958241	772402	967431	530454	789121	953803				523681	520045				760551		753210			839884
HTEU41	HTEIJ73	HTEIJ77	HTEIK11	HTEIK70	нтетк90	HTEIL07				HTEIL48	HTEIL70				HTEIL71		HTEIN68			HTEIN95

							•		•																
H0038: 2 and H0616:	H0038: 3	H0038: 2	AR089: 1, AR061: 0	H0038: 2 and H0253:	H0038: 4	H0038: 1 and H0616:	H0616: 5, H0038: 2	and H0253: 1.			H0038: 2	H0038: 1 and H0616:	1.	AR061: 3, AR089: 1	H0038; 3	H0616: 8, L0751: 6,	L0753: 6, L0776: 4,	L0758: 4, H0038: 3,	L0759: 2, S0222: 1,	L0770: 1, L0779: 1,	L0731: 1 and L0608: 1.	L0779: 2, H0038: 1	and H0616: 1.		
His-1 to Arg-11.	Phe-27 to Glu-39.		Met-23 to Thr-30.			Lys-1 to Trp-10.	Arg-24 to Glu-38,	Arg-46 to Ser-52,	Pro-74 to Glu-80,	Pro-118 to Ser-126.	Glu-15 to Lys-29.			Asp-5 to Arg-13,	Thr-37 to Ser-45.	Ala-1 to Arg-9,	Thr-14 to Trp-20,	Arg-46 to His-53,	Pro-58 to Glu-67,	Tyr-80 to Pro-86,	Ile-151 to Pro-160.	Arg-16 to Ser-23,	Cys-30 to Arg-35,	Arg-51 to Arg-57,	Gly-62 to Thr-68.
3832	3833	3834	3835		3836	3837	3838				3839	3840		3841		3842						3843			
3 - 347	152 - 334	159 - 356	1 - 252		194 - 370	232 - 462	41 - 472				300 - 458	305 - 547		1 - 339		2 - 712						1 - 231			
1145	1146	1147	1148		1149	1150	1151				1152	1153		1154		1155						1156			
920622	653244	573803	941155		523892	765794	928058				573775	779163		870652		922027						784657		•	-
HTEIO02	HTEI012	HTEI028	HTEIP88		HTEIP92	HTEIQ74	HTEIR33				HTEIS65	HTEIU75		HTEIU92		HTEIV54 922027				•		HTEIV86			

H0038: 6 and H0616:	H0038: 2	H0038: 2, L0758: 2, L0776: 1, L0809: 1.	L0438: 1, H0658: 1 and	L0756: 1.	H0038: 2	H0038: 1 and H0616: 1.	H0038: 2		H0038: 3 and L0758:				H0038: 3, H0616: 1	and L0758: 1.	H0038: 2	H0038: 2	H0038: 2	H0038: 2 and H0616: 1.	H0616: 2 and H0038:	AR061: 4, AR089: 1	L0758: 7, L0794: 4, H0038: 2 and L0791: 1.	H0038: 2
		His-33 to Gly-42.				Gly-43 to Ser-48.	Pro-7 to Pro-20,	Pro-33 to Leu-49.	Thr-7 to Glu-16,	Lys-24 to Asp-34,	Thr-40 to Glu-48,	Leu-52 to Lys-57.	Leu-5 to Gly-13.				Gly-47 to Ile-53.	Trp-14 to Glu-21, Gly-29 to Arg-36.				Lys-9 to Lys-23,
3844	3845	3846			3847	3848	3849		3850				3851		3852	3853	3854	3855	3856	3857		3858
124 - 423	68 - 352	204 - 554			2 - 226	58 - 216	2-355		188 - 460				144 - 386		115 - 348	. 216 - 377	3 - 269	167 - 304	156 - 377	2-319		2 - 424
1157	1158	1159			1160	1161	1162		1163				1164		1165	1166	1167	1168	1169	1170		1171
829698	573891	836011			864251	963536	577783		955242				523764		528015	230590	870644	573774	772989	908360		520049
HTEIW27	HTEIW37	HTEIX28			HTEIX85	HTEIY52	HTEIY69		HTEIY80				HTEIZ76		HTEJB20	HTEJB25	HTEJB81	HTEJC28	HTEJC95	HTEJE15		HTEJE50

															,											
	AR089: 21, AR061: 15 H0038: 2		H0038: 2	H0038: 2 and H0616:	1.	L0758: 12, L0794: 6,	H0038: 2, L0789: 2,	L0752: 2, L0803: 1 and	LO113. 1.	H0038: 1 and H0616:	1	H0038: 2 and H0616:	-		H0038: 2	H0038: 2	H0038: 2	H0038: 1 and H0616:	1.	H0415: 1 and H0038:	H0038: 2 and L0747:	1.		H0038: 2	H0038: 2 and H0616:	1.
Lys-30 to Lys-35.	Ser-11 to Ala-19, Glu-24 to I eu-33.	Pro-37 to Pro-45.				Gly-1 to Leu-9,	Cys-15 to Arg-26,	Pro-44 to Arg-50.		Thr-17 to Ala-24.		Thr-1 to Trp-9,	Glu-12 to Arg-17,	Pro-23 to Gln-40.		Thr-13 to Asn-19.	His-1 to Cys-7.			Gln-12 to Ser-20.	His-1 to Ser-15,	Glu-29 to Lys-46,	Pro-51 to Gln-63.	Pro-14 to Ser-31.	Lys-1 to Ser-6,	Glu-22 to Ser-28,
	3859		3860	3861		3862				3863		3864			3865	3866	3867	3868		3869	3870			3871	3872	
	122 - 643		92 - 62	148 - 384		415 - 173			,	115 - 294		63 - 368			1 - 126	169 - 354	2 - 418	475 - 645		1 - 534	3 - 194			1 - 450	1 - 219	
	1172		1173	1174		1175				1176		1177			1178	1179	1180	1181		1182	1183			1184	1185	
	942476		526278	774243		573742				952255		688386			258383	573845	914785	916481		556191	530596			676254	573823	
	HTEJF45		HTEJG24	HTEJJ43		HTEJL21				HTEJM56		HTEJN10			HTEJN49	HTEJN96	HTEJP10	HTEJP66		HTEJP71	HTEJT37			HTEJT74	HTEJU30	

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	H0038: 2	H0038: 2					H0616: 3, H0038: 2	and H0658: 1.	L0758: 4, L0779: 3 and	H0038: 2.	H0038: 2 and H0616:	1.	H0038: 2		H0038: 2		H0038: 5		H0616: 2 and H0038:	1.	H0038: 2 and H0618:	1.	H0616: 3 and H0038:	2.	L0758: 5, H0616: 3	and H0038: 2.		
Ser-48 to Arg-56.	Gly-11 to Thr-17.	Glu-2 to Thr-11,	Asn-35 to Gly-41,	Thr-57 to Asn-63,	Pro-73 to Glu-88,	Pro-101 to Phe-110.	Pro-9 to Trp-16,	Trp-18 to Gly-25.	Arg-3 to Ala-10,	Asp-25 to Trp-31.	Ala-1 to Pro-7,	Arg-13 to Ser-22.	Arg-1 to Pro-12,	Trp-42 to Thr-47.	Gly-1 to Trp-6,	Pro-12 to Ser-20.	Arg-7 to Ser-12,	Trp-36 to Pro-60.	Glu-29 to Ser-36,	Cys-49 to Thr-71.	Pro-22 to His-28.		Glu-19 to Tyr-36,	Glu-48 to Lys-53.	Phe-1 to Gly-19,		Arg-79 to Lys-92,	Ser-135 to Leu-145.
	3873	3874					3875		3876		3877		3878		3879		3880		3881		3882		3883		3884			
	23 - 337	2 - 388					3 - 440		1 - 252		2 - 121		76 - 402		1 - 291		147 - 338		103 - 315		753 - 1043		130 - 438		1 - 594			
	1186	1187		-			1188		1189		1190		1:191		1192		1193		1:194		1195		1196		1197			
	694525	806395					530156		685272		523818		920925		815975		519938		974044		870084		790381		774260			
	HTEJV62	HTEJX78					HTEJY21		HTEJY27		HTEJZ26		HTEKC07		HTEKC12		HTEKD04		HTEKE41		HTEKE46		HTEKE80		HTEKF04			

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102770, 188540, 600234, 601414, 601691, 601691, 601691, 601718, 602094							•				
1p13											
H0038: 2	H0038: 2	H0038: 2 and H0616:	H0038: 2	H0038: 3, L0758: 2, H0253: 1, H0616: 1,	L0794: 1, L0803: 1, L0745: 1 and L0588: 1.	H0038: 2		H0038: 3 and H0616: 1.	H0038: 1 and H0616: 1.	H0038: 2	H0038: 1 and H0616:
Arg-43 to Phe-48.	Pro-28 to Gly-33, Asp-35 to Leu-51, Leu-61 to Thr-69.	Glu-12 to Glu-19.		Ala-24 to Tyr-31, Gln-38 to Lys-43.		Pro-7 to Gln-16,	Pro-34 to Glu-45, Phe-56 to Leu-65.	Lys-34 to Ala-42.	Pro-8 to Thr-14.		Lys-62 to Ser-67.
3885	3886	3887	3888	3889		3890		3891	3892	3893	3894
103 - 267	27 - 233	1 - 291	3 - 344	257 - 682		2 - 247		1 - 264	3-251	31 - 165	348 - 569
1198	1199	1200	1201	1202		1203		1204	1205	1206	1207
573750	573749	172997	911116	503039		230288		745257	723148	870627	784444
HTEKF24	HTEKF35	HTEKF68	HTEKI01	HTEKI70		НТЕКЈ48		HTEKM14	НТЕКО49		HTEKQ85

1.	H0038: 1 and H0616:	H0038: 2	AR061: 2, AR089: 1	L0758: 14, H0038: 5,	L0779: 4, L0794: 2 and	H0616: 1.			H0618: 3, H0253: 1	and H0038: 1.		H0038: 1 and H0616:	1.	H0038: 1 and H0616:	1.	L0758: 10, H0038: 3,	L0794: 2, H0618: 1,	H0253: 1 and H0616: 1.	H0038: 2 and L0758:	1.	H0038: 2	H0038: 2	•	H0616: 4, L0803: 1	and L0731: 1.	H0616: 3 and L0519:	* ·
			Pro-9 to Arg-14,	Phe-34 to Ile-39,	Arg-41 to Lys-47,	Leu-49 to Gly-55,	Lys-104 to Lys-110,	Asp-119 to Gly-124.	Val-1 to Val-8,	Arg-36 to Pro-41,	Thr-50 to Leu-55.	Ser-9 to Ser-17,	Leu-48 to Cys-54.	Gly-46 to Glu-58.		Glu-37 to Asp-46.						Ile-9 to Asn-20,	Ala-22 to Asp-29.	Lys-8 to Lys-14.			
	3895	3896	3897						3888			3899		3900	٠	3901			3902		£06£	3904		3905		9068	
	139 - 318	290 - 427	3 - 569						113 - 346			166 - 399		87 - 263		118 - 375			108 - 257		68 - 259	98 - 280		49 - 195		165 - 536	
	1208	1209	1210						1211			1212		1213		1214			1215		1216	1217		1218		1219	
	870555	529273	846714						506651			767658	•	935945		928656			920927		573700	524054		774268		934272	
	HTEKR75	HTEKS15	HTEKS20						HTEKS21			HTEKS76		HTEKX06		HTEKX08			HTEKX28		HTEKX70	HTEKZ50		HTELA50		HTELD47	

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																					18	
H0616: 2	H0616: 3	H0616: 5	H0038: 1 and H0616: 1.	H0616: 2 and H0038:	1.		H0616: 2	H0038: 1, H0616: 1	and L0745: 1.	H0038: 1 and H0616:	I.	H0616: 2 and L0749: 1.	H0616: 4 and L0758:	3°	H0038: 1 and H0616:	H0616: 2	H0616: 2	H0616: 4	H0616: 2	H0616: 3 and L0779: 1.	H0038: 2 and H0616: 1.	H0616: 11 and H0038:
Arg-1 to Ser-6.		Ala-8 to Ser-13.	Pro-2 to Asp-7.	Val-17 to Val-23,	Phe-34 to Tyr-46,	Thr-62 to His-67.	Val-1 to Thr-12.	Gln-9 to His-21.		Glu-27 to Thr-34.			Asn-1 to Gln-7,	Phe-27 to Gly-38, Pro-61 to Gly-68.		Arg-21 to Phe-28.				Asn-56 to Ser-66.	Asp-19 to Lys-24.	Leu-21 to Gly-26,
3907	3908	3909	3910	3911			3912	3913		3914		3915	3916		3917	3918	3919	3920	3921	3922	3923	3924
79 - 267	157 - 438	260 - 475	279 - 455	1 - 318			3 - 107	351 - 542		421 - 588		318 - 554	86 - 361		3 - 449	9-239	107 - 349	181 - 294	394 - 648	357 - 626	75 - 302	117 - 434
1220	1221	1222	1223	1224			1225	1226	•	1227		1228	1229		1230	1231	1232	1233	1234	1235	1236	1237
779315	693263	791743	757740	870621			773018	766462		923071		806403	966134		794339	870552	923055	783824	952267	692726	786268	926910
HTELD82	HTELE10	HTELE41	HTELG47	HTELG57			HTELG80	HTELH44		HTEL103		HTELIS1	HTELJ89		HTELK14	HTELK50	HTELK68	HTELL48	HTELL51	HTELL90	HTELM89	HTELO20

	H0616: 4		H0038: 1 and H0616:			•		H0616: 2	H0616: 2, H0038: 1	and L0754: 1.			H0616: 3	H0616: 2 and H0038:		H0616: 2				H0616: 4, L0774: 2,	H0618: 1, L0665: 1 and	.0747: 1.		H0616: 4	H0616: 2	H0616: 2 and L0758:	 H0616: 2
His-101 to Trp-106.	Ser-21 to Ser-29,	Ala-43 to Asn-49.	Lys-1 to Cys-7,	Lys-16 to Glu-21,	Ser-23 to Thr-37,	Pro-40 to Ser-47,	Glu-49 to Arg-59.	Asn-6 to Ser-12.	Pro-1 to Val-16,	Lys-22 to Asp-30,	Asn-47 to Ala-61,	Arg-89 to Leu-94.		Tyr-1 to Leu-7,	Phe-51 to Asp-60.	Arg-29 to Leu-40,	Gly-50 to Gln-55,	Thr-73 to Ile-83,	Lys-90 to Lys-95.	Thr-7 to Asn-12,	Leu-20 to Ile-29,		Met-66 to Gly-77.	Lys-50 to Glu-55.	Lys-1 to Lys-9.	Lys-57 to Gly-63.	Asp-1 to Trp-11,
	3925		3926					3927	3928				3929	3930		3931			*	3932				3933	3934	3935	3936
	2 - 166		56 - 232					1 - 204	3 - 470				97 - 462	36 - 344		2 - 451				2 - 235				3 - 521	3 - 173	37 - 240	106 - 270
	1238		1239					1240	1241				1242	1243		1244				1245				1246	1247	1248	1249
	931120		761806					934344	921621				922634	761768		826531				761598				780619	915339	934302	963576
	HTELO51		HTELO73					HTEL093	HTELP27				HTELQ41	HTELQ87		HTELR90				HTELT72		-		HTELT83	HTELU01	HTELV06	HTELV10

											109400, 132800, 132800, 186855, 223900, 253800, 253800, 278700,
	-										9q31
	L0758: 16, H0038: 1 and H0616: 1.	H0038: 1 and H0616: 1.	AR089: 7, AR061: 6 H0616: 4, H0038: 1, L0745: 1 and L0779: 1.	H0616: 4, H0038: 2, L0768: 1 and L0779: 1.	H0616: 2 and L0758: 1.	H0616: 2	H0038: 1 and H0616: 1.	H0616: 2	H0038: 1 and H0616: 1.	H0616: 2	AR089: 19, AR061: 13 9q31 H0618: 14, H0253: 12, H0038: 11, H0616: 2, L0794: 1, L0779: 1 and L0758: 1.
Ser-49 to Lys-55.	Thr-17 to Leu-22.	Gly-2 to Ile-19, Lys-22 to Ala-31, Asp-49 to Asn-56.	2, 4, 2,	Ala-21 to Trp-26, Arg-64 to Val-83.	Cys-2 to Glu-9.	Gln-3 to Gln-13.		Thr-18 to Gly-25.	Lys-32 to His-41.	Ser-46 to Thr-53.	
	3937	3938	3939	3940	3941	3942	3943	3944	3945	3946	3947
	172 - 303	2 - 448	1 - 927	3 - 293	71 - 271	3 - 302	25 - 117	140 - 283	94 - 312	171 - 353	22 - 1167
	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260
	796832	870615	910946	952241	965028	903296	761599	764834	952268	786424	911666
	HTELV26	HTELV43	HTELV86	HTELW29	HTELW62	HTELX52	HTELX72	HTELY64	HTELZ07	HTELZ89	HTEMA54

	H0616:	H0616: 94: 3, 16: 2, 0779: 1.	H0616: 94: 3, 16: 2, 0779: 1.	H0616: 94: 3, 16: 2, 0779: 1. 518: 2 H0616: H0616:	H0616: 94: 3, (6: 2, 0779: 1. 518: 2 H0616: H0616: H0616:
H0616: 3	H0616: 3 H0038: 1 and H061	H0616: 3 H0038: 1 and H061 1. L0758: 9, L0794: 3, H0038: 2, H0616: 2, L0790: 1 and L0779:	H0616: 3 H0038: 1 and H061 1. L0758: 9, L0794: 3, H0038: 2, H0616: 2, L0790: 1 and L0779: H0253: 3, H0618: 2 and H0616: 1.	H0616: 3 H0038: 1 and H061 L0758: 9, L0794: 3, H0038: 2, H0616: 2, L0790: 1 and L0779: H0253: 3, H0618: 2 and H0616: 1. H0038: 1 and H061 L0798: 2 and H061 H0038: 2 and H061 H0038: 2 and H061 H0038: 2 and H061	H0616: 3 H0038: 1 and H061 L0758: 9, L0794: 3, H0038: 2, H0618: 2, L0790: 1 and L0779: H0253: 3, H0618: 2, and H0616: 1. H0038: 1 and H061 L0790: 2 and H061 H0616: 2 and H061 H0616: 2 H0616: 2 H0616: 6 and L075: 1.
Val-44 to Arg-54. Leu-25 to Asn-32, Ala-49 to Phe-56, Arg-60 to Lys-69.	Val-44 to Arg-54. Leu-25 to Asn-32, Ala-49 to Phe-56, Arg-60 to Lys-69.	Val-44 to Arg-54. Leu-25 to Asn-32, Ala-49 to Phe-56, Arg-60 to Lys-69. Lys-49 to Lys-56.	Val-44 to Arg-54. Leu-25 to Asn-32, Ala-49 to Phe-56, Arg-60 to Lys-69. Lys-49 to Lys-56. Gln-16 to Gly-27, Glu-59 to Gly-65, Ser-107 to Arg-113.	Val-44 to Arg-54. Leu-25 to Asn-32, Ala-49 to Phe-56, Arg-60 to Lys-69. Lys-49 to Lys-56. Glu-59 to Gly-27, Glu-59 to Gly-65, Ser-107 to Arg-113. Gln-15 to Arg-21. Gly-1 to Glu-8, Gly-1 to Gly-8, Gly-1 to Gly-49, His-65 to Met-70, Lys-79 to Gly-49. Asp-43 to Gly-49, His-65 to Met-70, Lys-79 to Gly-90. Ala-20 to Thr-44.	Val-44 to Arg-54, Ala-49 to Phe-56, Arg-60 to Lys-69. Lys-49 to Lys-56. Gln-16 to Gly-27, Glu-59 to Gly-65, Ser-107 to Arg-113. Gln-15 to Arg-21. Gly-1 to Glu-8, Gly-1 to Gly-8, His-65 to Met-70, Lys-79 to Gly-49, His-65 to Met-70, Lys-79 to Gln-90. Ala-20 to Thr-44.
3950	3950	3950 3951 3952	3950 3951 3952 3953	3950 3951 3953 3953 3955 3956	3950 3951 3952 3954 3955 3956 3956
1263 141 - 371					
	761602 1			761602 775593 924727 848193 963546 761783	761602 775593 775593 848193 848193 963546 761783 761783
					HTEMB72 HTEMC18 HTEMC75 HTEMD10 HTEMD73 HTEMD73
	1264 1 - 306	1264 1 - 306 3951 1265 2 - 292 3952 Lys-49 to Lys-56.	1264 1 - 306 3951 1265 2 - 292 3952 Lys-49 to Lys-56. From 1266 1 - 453 3953 Gln-16 to Gly-27, Glu-59 to Gly-65, a Ser-107 to Arg-113.	1264 1 - 306 3951 1265 2 - 292 3952 Lys-49 to Lys-56. 1266 1 - 453 3953 Gln-16 to Gly-27, 1266 1 - 453 3954 Gln-15 to Arg-113. 1267 58 - 240 3954 Gln-15 to Arg-21. 1268 1 - 270 3955 Gly-1 to Glu-8, 1268 1 - 270 3955 Gly-1 to Glu-8, 1269 2 - 310 3956 Ala-20 to Thr-44. 1270 3 - 116 3957	1264 1 - 306 3951 1265 2 - 292 3952 Lys-49 to Lys-56. 1266 1 - 453 3953 Gln-16 to Gly-27, 1266 1 - 453 3954 Gln-15 to Arg-113. 1267 58 - 240 3954 Gln-15 to Arg-21. 1268 1 - 270 3955 Gly-1 to Glu-8, 1269 2 - 310 3956 Ala-20 to Thr-44. 1270 3 - 116 3957 1271 248 - 496 3958
775593 1265 2 - 292 3952 Lys-49 to Lys-56. F 924727 1266 1 - 453 3953 Gln-16 to Gly-27, Clu-59 to Gly-65, a 848193 1267 58 - 240 3954 Gln-15 to Arg-113. 1	924727 1266 1 - 453 3953 Gln-16 to Gly-27, Glu-59 to Gly-65, a Ser-107 to Arg-113. 848193 1267 58 - 240 3954 Gln-15 to Arg-21. 1 </td <td>848193 1267 58 - 240 3954 Gln-15 to Arg-21.</td> <td></td> <td>761783 1269 2 - 310 3956 Ala-20 to Thr-44. 958386 1270 3 - 116 3957</td> <td>761783 1269 2-310 3956 Ala-20 to Thr-44. 958386 1270 3-116 3957 786377 1271 248-496 3958</td>	848193 1267 58 - 240 3954 Gln-15 to Arg-21.		761783 1269 2 - 310 3956 Ala-20 to Thr-44. 958386 1270 3 - 116 3957	761783 1269 2-310 3956 Ala-20 to Thr-44. 958386 1270 3-116 3957 786377 1271 248-496 3958
775593 1265 2 - 292 3952 Lys-49 to Lys-56. Fig. 1266 1 - 453 3953 Gln-16 to Gly-27, Glu-59 to Gly-65, a Ser-107 to Arg-113. Ser-107 to Arg-113. Ser-107 to Arg-21. 1	924727 1266 1 - 453 3953 Gln-16 to Gly-27, Glu-59 to Gly-65, a Ser-107 to Arg-113. 848193 1267 58 - 240 3954 Gln-15 to Arg-21. 963546 1268 1 - 270 3955 Gly-1 to Glu-8, Glu-16 to Ser-22, Asp-43 to Gly-49, His-65 to Met-70, Lys-79 to Gln-90.	848193 1267 58 - 240 3954 Gln-15 to Arg-21. 1 963546 1268 1 - 270 3955 Gly-1 to Glu-8, Glu-16 to Ser-22, Asp-43 to Gly-49, His-65 to Met-70, Lys-79 to Gln-90.	963546 1268 1 - 270 3955 Gly-1 to Glu-8, Glu-16 to Ser-22, Asp-43 to Gly-49, His-65 to Met-70, Lys-79 to Gln-90.	958386 1270 3 - 116 3957	958386 1270 3 - 116 3957 786377 1271 248 - 496 3958
775593 1265 2 - 292 3952 Lys-49 to Lys-56. Fig. 1266 1 - 453 3953 Gln-16 to Gly-27, Glu-59 to Gly-65, a Ser-107 to Arg-113. Ser-107 to Arg-113. Ser-107 to Arg-21. 1 963546 1268 1 - 270 3955 Gly-1 to Glu-8, Glu-16 to Ser-22, Asp-43 to Gly-49, His-65 to Met-70, Lys-79 to Gln-90.	924727 1266 1 - 453 3953 Gln-16 to Gly-27, Glu-59 to Gly-65, a Ser-107 to Arg-113. 848193 1267 58 - 240 3954 Gln-15 to Arg-21. 1 963546 1268 1 - 270 3955 Gly-1 to Glu-8, Glu-16 to Ser-22, Asp-43 to Gly-49, His-65 to Met-70, Lys-79 to Gln-90.	848193 1267 58 - 240 3954 Gln-15 to Arg-21. 1 963546 1268 1 - 270 3955 Gly-1 to Glu-8, 2 Glu-16 to Ser-22, 2 Asp-43 to Gly-49, 4 His-65 to Met-70, Lys-79 to Gln-90. Lys-79 to Gln-90. 761783 1269 2 - 310 3956 Ala-20 to Thr-44.	963546 1268 1 - 270 3955 Gly-1 to Glu-8, Glu-16 to Ser-22, Asp-43 to Gly-49, His-65 to Met-70, Lys-79 to Gln-90. 761783 1269 2 - 310 3956 Ala-20 to Thr-44.		786377 1271 248 - 496 3958

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and L0748: 1.	H0038: 1 and H0616: 1.	H0616: 5, H0038: 2, L0779: 1 and L0758: 1.	H0616: 2	H0038: 1 and H0616: 1.	H0616: 2 and H0038: 1.	H0616: 3	H0616: 3 and H0038: 1.	H0038: 10, L0758: 7.	L0768: 6, H0253: 4,	H0616: 2, L0772: 1,	L0773: 1, L0779: 1 and	L0731: 1.			AR089: 17, AR061: 13	L0794: 2, L0752: 2,	H0616: 1, L0763: 1,	L0766: 1, L0664: 1,	H0670: 1 and L0758: 1.	H0038: 1, H0616: 1	and L0758: 1.	H0038: 1 and H0616:
	Pro-11 to Gly-21, Pro-65 to Ser-71.	Pro-32 to Gly-40, His-54 to Glu-74.	Tyr-16 to Ser-25.			Phe-7 to Glu-12, Leu-22 to Tyr-28.	Gln-29 to Gly-34.	Arg-8 to Ser-15,	Ser-21 to Trp-40,	Glu-63 to Trp-74,	Ser-76 to Ser-81,	Asp-83 to Asp-96,	Glu-125 to Ser-131,	Leu-198 to Leu-206.	Ser-7 to Asp-13,	Leu-49 to Asn-54,	His-62 to Tyr-68.			Arg-1 to Arg-8,	Leu-44 to Ala-50, Ser-58 to IIe-68.	Ser-16 to His-24.
	3960	3961	3962	3963	3964	3965	3966	3967					-		3968					3969		3970
	45 - 359	353 - 631	10 - 96	54 - 251	2-319	166 - 276	1 - 159	3 - 629							2 - 340					102 - 371		45 - 203
	1273	1274	1275	1276	1277	1278	1279	1280							1281			•		1282		1283
	923066	989888	958374	789113	880634	771434	767863	932319							909280		_			963527		832506
	HTEMK03	HTEMM80	HTEMN08	HTEMN95	HTEMO14	HTEMO85	HTEMP48	HTEMP49					•		HTEMR65					HTEMS10		HTEMS48

1.	L0758: 4, H0038: 1, H0616: 1 and L0779: 1.		L0758: 3 and H0616:	H0616: 2, L0749: 2 and H0038: 1.	H0616: 3	AR061: 6, AR089: 3 H0616: 2 and H0038: 1.	H0038: 1, H0616: 1 and L0759: 1.	H0616: 2	H0038: 1 and H0616: 1.	H0616: 3	H0616: 2 and L0109:			H0038: 1 and H0616: 1.	H0038: 1, H0616: 1 and S0152: 1.
	lie-14 to Asp-22, Pro-28 to Gln-43, Pro-49 to Arg-56,	Pro-62 to Ser-78, Thr-81 to Glu-89.	Glu-36 to Val-53.	Arg-21 to Pro-26.	Arg-18 to Lys-24, Thr-29 to Ile-34.	Gly-82 to Lys-89.	Arg-32 to Gly-37.		Pro-20 to Ala-32, Arg-46 to Val-51.	Ser-29 to Val-39.	Gln-29 to Leu-34,	Arg-36 to Leu-44, Glu-58 to Ser-64,	Ser-67 to Pro-85.	Ala-6 to Ala-12.	Glu-69 to Leu-79.
	3971		3972	3973	3974	3975	3976	3977	3978	3979	3980			3981	3982
	2 - 268		2 - 160	112 - 273	43 - 189	23 - 514	46 - 231	162 - 377	1 - 294	24 - 338	243 - 497			380 - 574	111 - 347
	1284		1285	1286	1287	1288	1289	1290	1291	1292	1293			1294	1295
	934338		922999	789623	870618	913795	870662	927021	870601	923050	775544			828326	795316
	HTEMT06		HTEMT89	HTEMU17	HTEMU54	HTEMX92	HTEMY30	HTEMZ04	HTENA22	HTENB03	HTENC22			HTENF08	HTENF95

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			-							11q13.2-q13.3 133780,	151400,	602078				·					
H0253: 3, H0038: 1 and H0616: 1.	H0038: 1 and H0616: 1.	H0616: 2, H0038: 1 and L0758: 1.	AR089: 30, AR061: 13 L0794: 25, L0758: 4,	H0038: 3, H0616: 2,	L0779: 2, L0768: 1 and	L0790: 1.	H0038: 7, H0124: 1,	H0040: 1, H0616: 1 and	L0779: 1.	H0253: 1 and H0616: 1	1.			H0616: 3 and H0618: 1.	H0038: 4, H0616: 3,	L0758: 3 and L0779: 1.			H0616: 6, H0618: 3,	H0253: 3 and H0038: 3.	
Asn-2 to Glu-14, Pro-17 to Lys-27, Gly-42 to Ser-59, Cys-70 to Lys-81.	His-7 to Ser-12.	Ile-28 to Ser-36.	Asn-17 to Asn-30, Glu-37 to Lys-56,	Asp-64 to Gln-69,	Gly-77 to Ser-95,	Lys-109 to Asn-114, Arg-158 to Ser-183.	Thr-6 to Arg-17.			Thr-17 to Ala-25,	Pro-40 to Glu-46,	Asn-76 to Glu-81,	Gln-90 to Lys-104.	Gly-23 to Pro-32.	Arg-15 to Leu-21,	Ala-29 to Glu-34,	Pro-40 to Trp-49,	Ser-82 to Ala-97.	Gly-29 to Glu-39,	Gly-105 to Lys-117, Gln-135 to L en-142	OIII-122 W 200-1-12,
3983	3984	3985	3986				3987			3988				3989	3990				3991		
3 - 308	1 - 102	182 - 436	41 - 589				1 - 948			3 - 443		•		249 - 566	192 - 509				79-1467		
1296	1297	1298	1299				1300			1301				1302	1303				1304		
840151	967432	784798	917213				968135			767838				835851	844557				917032		
HTENG66 840151	HTENG93	HTENH86	HTENI58				HTENJ28			HTEN176				HTENK06	HTENK69				HTENO12		

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				H0038: 1 and H0616:			H0616: 17 and L0758:	1.	H0038: 1 and H0616:			H0038: 2, H0616: 1	and L0758: 1.	H0038: 1 and H0616:		H0038: 2 and H0616:	1.	H0328: 1, H0038: 1	and H0616: 1.				H0038: 1, H0616: 1	and L0748: 1.				
Pro-180 to Ser-186,	Gln-202 to Ser-207,	Gln-214 to Asp-220,	Gly-246 to Thr-255.	Asn-1 to Glu-6,	Gln-9 to Gly-15,	Gln-18 to Arg-40.	Arg-13 to Leu-18.		Asp-16 to Leu-22,	Met-37 to Thr-42,	Glu-55 to Gly-68.	His-23 to Ser-34,	His-77 to Glu-82.	Gly-40 to Ala-45,	Arg-65 to Thr-75.	Gly-1 to Pro-15.			_	Ser-90 to Glu-97,	Ile-108 to Lys-114,	Val-117 to Asn-127.	Met-2 to Asn-16,		Ser-54 to His-60,	Pro-63 to Ser-69,	Leu-101 to Gln-118,	Gly-139 to Pro-146.
				3992			3993		3994			3995		3996		3997		3998					3999					
				190 - 618			17 - 208		2 - 496			1 - 654		24 - 380		1 - 456		201 - 659					3 - 440		•			
				1305			1306		1307			1308		1309		1310		1311					1312					
				969213			787535		775387			928244		963530		764828		920834					966582					
				HTENO50			HTENP54		HTENP80			HTENQ05		HTENR10		HTENR74		HTENR93					HTENS22					

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H0616: 5, H0038: 3, H0253: 1, L0769: 1, L0794: 1, H0521: 1, L0748: 1, L0779: 1 and L0758: 1.	H0616: 2 and L0517: 1.	AR061: 7, AR089: 3 H0616: 5 and H0038: 1.	·		H0038: 2, H0616: 2 and L0758: 2.	L0758: 10, L0439: 6,	H0616: 2, L0803: 2,	L0756: 2, L0455: 1,	H0038: 1 and L0438: 1.	H0038: 1 and H0616: 1.	H0616: 3						
	Trp-1 to Gln-10.	Gly-5 to Arg-10, Arg-18 to Ser-24, Glu-35 to Asn-42,	Lys-72 to Gln-82, Tyr-90 to Lys-96,	Lys-112 to Arg-123, Asp-141 to Met-146.	Arg-6 to Asp-13, Lys-70 to Tro-76.	Glu-1 to Lys-11.				Ala-17 to Ser-22.	Gln-1 to Ser-19,	Glu-29 to Lys-35, Len-58 to Phe-68	Cys-100 to Arg-107,	Cys-113 to Cys-119,	Phe-124 to Asn-139,	Leu-157 to Glu-163,	Ile-174 to Ile-180,
4000	4001	4002			4003	4004				4005	4006						
226 - 756	387 - 725	99 - 617			1 - 243	168 - 359				383 - 553	2 - 1009	•					
1313	1314	1315			1316	1317				1318	1319						
784936	870515	944416			907717	771409				870587	884043						
HTENS43	HTENS91	HTENV57			HTENW53 907717	HTENX77				HTENY21	HTENY35				_		

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																											300000,	300066,	300077,
																											Xp22		
					L0779: 9, L0758: 9,	L0665: 8, H0616: 4,	L0663: 4, H0038: 3,	L0755: 3, L0717: 1,	L0768: 1, L0666: 1,	H0659: 1, H0670: 1,	L0748: 1 and L0749: 1.	H0038: 1 and H0616:	1.	H0616: 2 and H0038:	1		H0038: 1 and H0616:	1.		H0616: 2 and H0038:	-		H0616: 2 and H0038:	•	H0038: 1 and H0616:	1.	AR061: 7, AR089: 3	H0616: 3	
Pro-195 to Pro-204,	Gly-228 to Glu-250,	Ile-260 to Asp-266,	Thr-273 to His-279,	Cys-281 to Gly-291.								Gln-24 to Glu-34,	Ala-58 to Ser-64.	Met-56 to Pro-67,	Ser-82 to Tyr-87,	Pro-111 to Ala-121.	Arg-20 to Gln-27,	Arg-37 to His-42,	Pro-46 to His-55.	Tyr-3 to Cys-9,	Thr-20 to Ile-25,	Gly-60 to Arg-67.			Gly-2 to Glu-13,	Val-40 to Cys-79.	Val-17 to Arg-23,	Tyr-28 to Ser-34,	Thr-41 to Cys-47.
					4007							4008		4009			4010			4011			4012		4013		4014		
					203 - 454							102 - 377		2 - 400			24 - 329			129 - 428			247 - 411		258 - 632		2 - 262		
					1320							1321		1322			1323			1324			1325		1326		1327		
					917185							870591		773024			787516			812307			918635		793202		847224		
					HTENZ16 917185		-					HTENZ33		HTENZ72			HTEOA90			HTEOD34			HTEOE61		HTEOF31		HTEOF80		

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300310, 301220, 302350, 304050, 304110,	309530, 309585, 312040					·			<u> </u>									
		H0663: 1, H0644: 1, H0038: 1 and H0616: 1.	H0616: 2	AR089: 36, AR061: 21	H0038: 7, H0618: 1,	HU233: 1 and HU016: 1.		H0038: 1 and H0616:	1.		H0616: 2 and H0038: 1.	AR061: 6, AR089: 3	H0038: 4, L0758: 3,	H0616: 2, L0794: 2,	L0747: 2, L0803: 1,	L0789: 1 and L0590: 1.	H0038: 2 and H0616:	
			Arg-31 to Asp-37.		Lys-33 to Arg-40,	Arg-02 to Lys-08, Ala-79 to Val-93,	Lys-106 to Asp-113.	Arg-1 to Ile-8,	Tyr-12 to Gly-29,	Lys-77 to Glu-91.		Pro-27 to Ala-35.						
		4015	4016	4017				4018			4019	4020					4021	
		113 - 364	27 - 164	3 - 410				11 - 295			121 - 408	2 - 520					107 - 271	
		1328	1329	1330				1331			1332	1333					1334	
		768583	918571	870575				810333			918590	815852					954114	
		HTEOF85	HTEOF91	HTEOI36				HTEOI53			HTEOK02	HTEON29					HTEON67	

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																									•			
H0616: 22	L0766: 5, L0803: 3, H0616: 2, L0777: 2,	L0470: 1, L0761: 1,	L0764: 1, L0804: 1,	L0805: 1, L0776: 1,	L0789: 1 and L0750: 1.	H0616: 2		AR089: 17, AR061: 14	H0616: 2	H0618: 3, H0616: 2	and H0253: 1.				L0758: 9, H0038: 1,	H0616: 1 and S0042: 1.	H0616: 3, L0747: 2,	L0794: 1, L0803: 1 and	L0779: 1.	H0616: 3, L0758: 2,	L0794: 1 and L0366: 1.	H0616: 2 and H0038:	1.	H0616: 4, L0779: 1	and L0758: 1.	H0616: 2	H0616: 4, L0756: 2	and H0038: 1.
	Pro-14 to Phe-23, Lys-111 to Lys-133.					Ser-30 to His-36,	Arg-54 to Arg-59.	Gly-38 to Val-44.	•	Arg-1 to Ala-13,	Arg-99 to Arg-104,	Thr-117 to Gln-124,	Asn-132 to Gln-137,	Thr-145 to His-155.	Tyr-34 to Glu-43.		Pro-77 to Ser-83.			Asp-35 to Gly-40.		Leu-2 to Gly-11.		Pro-10 to Asn-16,	Asn-38 to Arg-44.	Cys-5 to Thr-14.	His-7 to Gly-17,	Gly-25 to Leu-36.
4022	4023					4024		4025		4026					4027		4028			4029		4030		4031		4032	4033	
320 - 529	22 - 438					3 - 266		2 - 445		2 - 490					147 - 605		43 - 393			204 - 515		161 - 568		140 - 328		126 - 497	2 - 193	
1335	1336					1337		1338		1339					1340		1341	•		1342		1343		1344		1345	1346	!
915138	870532					918475		995028		789696		<u>···</u>			958391		872923			772949		782248		767824		883021	933299	
HTEOU45	HTEOV90					HTEOW02		HTEOW39		HTEOW85					HTEPA08		HTEPA27			HTEPB66		HTEPB84		HTEPC76		HTEPC87	HTEPD06	

AR061: 5, AR089: 2 H0369: 1, H0038: 1, H0616: 1, L0593: 1 and L0595: 1.	L0752: 3, H0618: 1, H0616: 1, L0769: 1, L0803: 1, L0789: 1, L0439: 1, L0758: 1 and L0698: 1.	H0616: 3 and H0038: 1. ·	H0616: 2 and L0758: 1.	H0616: 2 H0038: 1 and H0616: 1.	H0616: 5, L0758: 5 and H0038: 1.	AR061: 25, AR089: 5 L0758: 3, H0616: 2, H0038: 1 and L0779: 1.	H0616: 2 H0616: 2 and H0038:
Asn-30 to Lys-43, Pro-58 to Glu-65, Arg-77 to Asn-85.	Gln-1 to Asn-9, Pro-14 to Leu-20, Leu-42 to Gly-47, Gln-56 to Arg-61, Pro-109 to Ser-114, Lys-119 to Thr-131.	Thr-2 to Ser-12, Arg-60 to Leu-67, Ala-72 to Thr-77, Pro-82 to Lys-91, Gly-96 to Ser-101, Glu-110 to Pro-118, Gln-124 to Leu-129, Gln-132 to Ser-138.	Arg-1 to Asn-11, His-40 to Arg-45.	Arg-1 to Ser-9.	Gly-5 to Pro-15, Ser-23 to His-32.	Pro-8 to Gly-26, Cys-54 to Cys-66, Gly-73 to His-85.	Leu-12 to Pro-17,
4034	4035	4036	4037	4038	4040	4041	4042
2 - 640	3 - 395	25 - 477	305 - 1216	37 - 345 27 - 122	209 - 631	1 - 735	3-311
1347	1348	1349	1350	1351	1353	1354	1355
932576	812303	915301	956200	918599	939675	870561	806471 952243
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1.		H0616: 2, L0779: 2,	H0038: 1 and L0758: 1.	H0038: 1 and H0616:	1.	H0616: 3 and H0038:	1.		H0616: 4 and H0038:	3,						H0038: 1 and H0616:		H0038. 2 and H0616.	110056. 2 and 110010. 2.	H0616: 2	H0616: 2 and H0038:	1.	H0616: 2	AR061: 6, AR089: 2	H0616: 3, L0758: 2,	L0768: 1, L0792: 1 and	L0779: 1.	AR089: 11, AR061: 2
Pro-24 to Gly-29,	Ser-34 to Gly-39.	Asn-6 to Asp-16.		Gly-33 to Gly-38,	Gln-61 to His-66.	Ala-35 to Glu-41,	Ile-54 to Glu-74,	Lys-80 to Leu-87.	Gln-8 to Cys-17,	Cys-20 to Gln-26,	Thr-61 to Lys-68,	His-75 to Gly-83,	Asn-88 to Gln-104,	Pro-118 to Leu-126,	Gln-131 to Glu-138.	Lys-86 to Lys-91,	Lys-107 to Lys-139,			Gly-42 to Gly-47.	Pro-66 to Ser-74.			Ser-9 to Ser-17,	Phe-21 to Leu-45.			Ser-10 to Gly-15,
		4044		4045		4046			4047							4048		4040	Ì	4050	4051		4052	4053				4054
		1 - 192		1 - 372		12 - 641			3 - 866							3 - 545		1-168	201 -	2 - 238	42 - 518		533 - 670	1 - 471				91 - 699
		1357		1358		1359			1360							1361		1367	7061	1363	1364		1365	1366				1367
		836572		917207		947107			785803							698062		787400	77101	870509	870637		915134	917406				849028
		HTEPP23		HTEPP29		HTEPP30			HTEPP32							HTEPP92		HTFPROU		HTEPT25	HTEPT75		HTEPU01	HTEPV02				HTEPX32

								•																		
H0038: 6, H0616: 6,	L0794: 4, L0768: 1 and	L0758: 1.		H0616: 2 and L0758:	2.	H0618: 1 and H0616:	1.	H0616: 4	L0758: 7, H0618: 1,	H0616: 1, L0794: 1 and	20117. 1.	H0616: 2 and H0038: 1.	H0038: 2 and H0616:	1.		H0616: 3 and H0038:	1.		H0616: 2, L0803: 1	and L0774: 1.		H0038: 2 and H0616:	H0038.1 and H0616.	HVOJO. I AUG HVOIO:	. :	H0038: 1 and H0616:
Pro-20 to Ser-27,	Glu-34 to Gly-41,	Ala-45 to Trp-50,	Pro-79 to Gly-88.	Pro-9 to Ser-19,	Pro-51 to Asp-57.	Lys-2 to Gly-11.		Pro-30 to Cys-35, Thr-41 to Ser-47.	Met-11 to Lys-28.	,		Thr-39 to Asn-45.	His-16 to Ser-21,	Val-30 to Asn-40,	Leu-54 to Pro-64.	Pro-31 to Glu-45,	Ala-52 to Lys-58,	Met-/8 to Lys-89.			Arg-21 to Asn-27.		Gln-4 to Cor.0	0.1. 0.0 cc. 2.	Ala-23 to Glu-29, Phe-65 to Ser-71.	
				4055		4056		4057	4058		02.07	4059	4060			4061			4062			4063	4064	1	•	4065
	_			274 - 543		50 - 502		2 - 151	2 - 490		.00	133 - 321	205 - 633			10 - 426			189 - 422			158 - 424	90 - 308			1 - 144
				1368		1369		1370	1371		010	13/2	1373			1374	•		1375			1376	1377	,,,,,		1378
				963433		888470		922941	915198		01010	9185/9	958354			881004			853971			870525	806495	2000		806504
				HTEPZ10		HTEPZ18		HTEQB03	HTEQD40		O) COLUMNIA	H1EQD69	HTEQE87			HTEQG56			HTEQI54			нтЕQл4	HTFO142	2		HTEQO81

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1.	H0616: 4	H0616: 3 and L0758:	AR089: 10, AR061: 3	H0253: 8, H0038: 4,	H0616: 3, H0618: 2,	L0758: 2 and L0779: 1.	L0758: 6, H0616: 2	and L0794: 2.	L0758: 3, H0038: 1	and H0616: 1.	H0253: 2	H0618: 4 and H0253:	3.	H0253: 2	H0253: 3		H0038: 164, H0253:	42, H0150: 2, H0549: 1	and S0042: 1.	L0758: 4, H0253: 2,	H0616: 2, L0649: 1,	L0666: 1, L0663: 1 and	L0780: 1.	L0758: 5, H0253: 4,	L0794: 4, H0618: 2,	H0038: 1, H0616: 1 and	L0768: 1.
	Lys-1 to Phe-10.	Asp-5 to Asp-14.	Thr-17 to Leu-22.				Asn-83 to Ser-88.				Asp-32 to Gln-37.	Ala-6 to Gly-25.		Gly-42 to Arg-47.	Leu-2 to Cys-8,	Gly-32 to Arg-39.	Ala-1 to Arg-6,	Met-14 to Thr-32.		Ser-5 to Asn-12,	Leu-63 to Gly-71.			Phe-12 to Leu-22,	Ser-26 to Tyr-32,	Phe-53 to Asn-59,	Tyr-68 to Leu-73,
	4066	4067	4068				4069		4070		4071	4072		4073	4074		4075			4076				4077			
	1 - 141	254 - 24	108 - 590				77 - 388		193 - 1311		3 - 281	3 - 266		1 - 333	2 - 163		23 - 154			2 - 298				86 - 529			
	1379	1380	1381				1382		1383		1384	1385		1386	1387		1388			1389				1390			
	966141	932301	939641				966486		924799		530577	625085		575019	679414		546469			761758				421550			
	HTEQP45	нтеоо82	HTEQR15				HTEQR94		HTEQT63		HTLAB19	HTLAB44		HTLAB73	HTLAC81		HTLAC87			HTLAD21				HTLAD38			

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									109400,	125270,	125270,	128100,	132800,	132800,	137350,	186855,	191100,	215700,	223360,	223900,	253800,	253800,	268900,	278700,	601850,	602088	
									9931-934																		
	H0253: 2 and L0777:	1. H0253: 3	H0253: 2			H0253: 1, H0038: 1	and H0616: 1.		L0366: 3, H0618: 2,	H0253: 1 and L0754: 1.																	H0616: 2, H0618: 1 and H0253: 1.
Gln-96 to Gly-102.	Pro-32 to Thr-48,	Ser-39 to Glv-45.	Ala-2 to Pro-8,	Pro-57 to Trp-67,	Cys-69 to Gly-74.	Glu-6 to Thr-15,	Ser-21 to His-34,	Algebra to Alaeut.	Ser-1 to Gly-8,	Thr-15 to Thr-23,	Pro-45 to Pro-53.																Glu-21 to Gln-27, Ser-30 to Lys-37.
	4078	4079	4080			4081			4082																		4083
	1 - 444	36 - 221	2 - 331			2 - 232			209 - 481																		3 - 590
	1391	1392	1393			1394			1395																		1396
	836390	530742	506739			967408		0.000	780116																		971661
	HTLAF84	HTLAV67	I			HTLBESS		SOLICE THE P	HTLBE82																		HTLBF14

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H0253: 2	AR061: 373, AR089:	H0253: 3. H0618: 2.	H0038: 2, H0616: 1 and	L0758: 1.	L0758: 5, H0616: 3,	H0038: 2, L0794: 2 and	H0253: 1.	H0253: 2	H0253: 1, L0794: 1,	L0766: 1, L0803: 1,	H0670: 1 and L0747: 1.	AR061: 5, AR089: 5	H0253: 4, H0618: 3,	L0758: 3, L0779: 2 and	L0794: 1.	H0253: 2	L0758: 4, L0794: 2,	L0617: 1, H0253: 1,	H0038: 1, L0789: 1 and	L0779: 1.	H0253: 2	L0758: 11, H0253: 3,	H0550: 1 and H0616: 1.					
				•	Gly-1 to Ile-6,	Gly-12 to Ile-27.		Leu-58 to Arg-68.	Arg-9 to Cys-18,	Arg-34 to Gly-40,	Glu-47 to Asp-54.	Arg-1 to Arg-6,	Ala-49 to Tyr-58,	Pro-67 to Lys-80,	Ser-92 to Trp-108.	His-1 to Gly-6.					Ser-6 to Ser-11.	Asn-1 to Glu-6,	Gly-17 to His-28,	Glu-33 to Ser-39,	Pro-41 to Lys-51,	Pro-56 to Glu-69,	Ser-83 to Lys-90,	Thr-97 to Ser-103,
4084	4085				4086			4087	4088			4089				4090	4091				4092	4093						
96 - 200	9601 - 86				2 - 112			2 - 277	2 - 301			134 - 934				1 - 162	17 - 286				2 - 271	72 - 497						
1397	1398				1399			1400	1401			1402		٠		1403	1404				1405	1406						
527942	911655				772644			167667	682208			908832				572959	815897				828115	780842						
HTLBG83	HTLCA95				HTLCG77			HTLCX76	HTLCY27			HTLCY54				HTLCZ48	HTLCZ96				HTLDA58	HTLDE53						

	AR089: 25, AR061: 11 H0253: 2 and H0618: 1.	H0253: 2	AR061: 7, AR089: 3	L0758: 6, L0789: 2, L0779: 2, H0253: 1,	L0809: 1, L0666: 1 and H0648: 1.	H0253: 2	H0553: 3 and H0253:	H0618: 1 and H0253:	H0253: 2, H0188: 1		H0253: 3 and H0618:	7.		H0618: 11, H0253: 10,	H0616: 6, L0758: 5,	H0038: 4, L0768: 2 and	H0090: 1.	AR061: 7, AR089: 2,	2, AR051:	AR050: 2
Arg-121 to Asp-131.	Glu-15 to Leu-20, Leu-24 to Ser-47.		Pro-7 to Gly-13.			Gly-1 to Arg-10.			Met-12 to Asp-18, Tvr-20 to Glv-31	Lys-38 to Trp-47.	Gly-1 to Gly-9,	Gin-15 to Arg-20, Cys-53 to Arg-59,	Arg-84 to Glu-89, Pro-105 to Glu-113.	Ser-3 to Ser-16.				Ala-1 to Gln-13,	Pro-19 to Leu-27,	Asp-34 to Pro-40,
	4094	4095	4096			4097	4098	4099	4100		4101			4102				4103		
	83 - 427	86 - 298	3 - 599			1 - 192	3 - 431	248 - 472	90 - 458		1 - 573			1 - 834		•		2 - 1171		
	1407	1408	1409			1410	1411	1412	1413		1414			1415				1416		
	908613	616724	909254			911645	839795	835850	915223		920546			870057				891322		
	HTLDE64	HTLDE95	HTLDF33			HTLDG55	нтгрн65	HTLD190	HTLD094		HTLDP77	,		HTLDQ25				HTLDS55		

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											109400	122000	132800,	132800,	186855,	223900,	253800,	253800,	278700,	602088							
											9a31	- I					-										
H0618: 5, L0758: 4, H0038: 3, H0253: 2, H0553: 1, H0616: 1	L0789: 1, L0663: 1 and	L0779: 1.					AR089: 11, AR061: 7	H0253: 2, L0439: 1	and L0599: 1.	H0253: 2 and H0618:	AR061: 8, AR089: 7	H0252, 2 H0619, 1	HU233: 3, HU018: 1	and LU/36: 1.							H0253: 1 and S0152: 1		H0618: 2 and H0253:				H0038: 2 and H0253:
Ser-45 to Ser-52, Lys-105 to Pro-112, Pro-146 to Tro-158.	Arg-181 to Arg-189,	Arg-241 to Arg-248,	Asp-285 to Asn-291,	Gln-328 to Ile-333,	Gln-369 to Thr-375,	Arg-380 to Phe-390.	Gly-3 to Ser-8.			Pro-3 to Pro-8, Glu-22 to Gln-29	Pro-89 to Ala-97.										Gln-16 to Gly-35,	Gly-59 to Ser-74.	Pro-5 to Gly-10,	Gly-24 to Ala-33,	Pro-88 to Pro-95,	Pro-106 to His-114.	Lys-50 to Ala-55,
							4104			4105	4106										4107		4108				4109
							2 - 328			1 - 465	2 - 469		_								61 - 309		148 - 636				3 - 425
							1417			1418	1419										1420		1421	•			1422
							909752			952265	911649										867748		791684				573746
							HTLDT05			HTLDT81	HTLDU05						•		····		HTLDV31		HTLDX88				HTLDY85

																							116806,	120120,
								•						15q13-qter	1								3p21.3	
1		H0253: 2	H0618: 4 and H0253:	H0253: 2	H0253: 2	AR051: 12, AR054:	10, AR050: 8	H0616: 6, H0618: 2,	H0253: 2 and H0038: 2.	H0253: 2	H0253: 2		H0253: 3	AR061: 3, AR089: 1	H0618: 3 and H0253:	Ţ		H0253: 5 and H0618:	3.	H0253: 2		H0253: 1 and H0616:	H0253: 2	
Thr-99 to Glu-104,	Arg-116 to Arg-122, Lys-129 to Thr-136.		Gly-63 to Arg-71.	Leu-1 to Pro-7.							Gly-1 to His-8,	Glu-26 to Gly-33.	Glu-58 to Thr-63.	Tyr-52 to Gln-60,	Phe-86 to Ala-94,	Lys-111 to Arg-118,	His-193 to Tyr-198.	His-22 to Lys-36,	Asp-51 to Lys-59, Gln-68 to Leu-83.	Ala-1 to Cys-13,	Arg-32 to Ala-37.	Pro-3 to Gly-9.		
		4110	4111	4112	4113	4114				4115	4116		4117	4118				4119		4120		4121	4122	
		174 - 347	1 - 414	102 - 287	33 - 239	177 - 1181				1 - 111	1 - 528		124 - 417	2 - 802				2 - 307	-	2 - 331		2 - 202	2 - 106	
		1423	1424	1425	1426	1427				1428	1429		1430	1431			•	1432		1433		1434	1435	
		573401	573464	686906	870258	870154				870257	934287		573460	973302			·	960314		506747		917022	575080	
		HTLDZ14	HTLEB14	HTLED72	HTLEF94	HTLEG65				HTLEG91	HTLEH30		HTLEI47	HTLEJ11				HTLEJ93		HTLEK64		HTLEL01	HTLEL03	

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120120, 120120, 120436, 120436, 120436, 138320, 168468, 182280, 600163	,	126650,	154276,	173360,	602136,	602136,	602136,						
		7q22											
	H0253: 1 and H0617:	H0253: 2 .						H0253: 2, L0777: 2 and L0759: 1.	H0253: 1 and H0038:	1. H0253·2 1.0794·2	and S0042: 1.	H0618: 2 and H0253:	
•	Ala-29 to Asn-37, Lys-64 to Thr-77, Ile-97 to Arg-126.	Pro-6 to Glu-13, Arg-18 to Pro-30.		·			•		Ser-2 to Pro-10.			His-7 to Ile-32,	Glu-82 to Glu-87, Lys-103 to Gly-108.
·	4123	4124					<i>;</i>	4125	4126	4127		4128	
	28 - 222	3 - 143						1 - 456	2 - 265	3 - 443		3 - 605	
	1436	1437						1438	1439	1440		1441	
	953712	056699						719160	506649	574942		923206	
	HTLEL07	HTLEL31						HTLEM46	HTLEO50	HTLEP16		HTLEQ07	

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H0253: 2	H0038: 2 and H0253:			AR061: 6, AR089: 5	H0253: 18, H0618: 7,	L0794: 3, H0038: 1,	H0616: 1, L0788: 1 and	L0758: 1.		AR061: 4, AR089: 2	H0618: 10, H0253: 5,	L0758: 5, L0664: 1,	L0756: 1, L0779: 1 and	L0698: 1.	H0253: 2	L0794: 5, H0253: 3,	H0618: 2, H0616: 2,	L0758: 2 and L0787: 1.	H0616: 14, H0618: 8,	[L0779: 4, H0253: 3,	H0038: 3, L0790: 1 and	L0758: 1.		H0253: 2, H0617: 2	and H0618: 1.	H0253: 2	H0253: 2		H0253: 2
	Pro-10 to Gln-19,	Pro-46 to IIe-59,	Thr-64 to Leu-70.	Ser-54 to Lys-61,	Pro-118 to Lys-128,	Thr-208 to Ser-213,	Ser-218 to Ala-227,	Pro-230 to Ser-236,	Pro-238 to Ser-244.	Leu-11 to Lys-18,	Phe-107 to Gly-114,	Glu-121 to Asn-128,	Met-146 to Pro-153.			Ala-8 to Gly-17,	Pro-25 to His-34.	•	His-1 to Thr-6,	His-14 to Cys-58,	Cys-70 to Ala-77,	Pro-85 to Cys-109,	Pro-116 to Glu-121.				Arg-1 to Gly-21,	Gln-38 to Asp-43.	Pro-38 to Trp-43,
4129	4130			4131						4132					4133	4134			4135					4136		4137	4138		4139
49 - 216	1 - 282			95 - 826						2 - 826					1 - 111	1 - 273			52 - 414					2 - 346	-	3 ± 197	2 - 130		5 - 226
1442	1443			1444						1445					1446	1447			1448					1449		1450	1451		1452
573403	574884			911654						836820					573454	527956			883332					870255		573458	608296		775310
HTLES43	HTLES54			HTLET56						HTLET78				٠	HTLET93	HTLEV33	,		HTLEV95					HTLEW12		HTLEW21	HTLEY11		HTLEY91

																										-			
																126650,	126650,	154276,	173360,	173360,	602136,	602136,	602136,	602447					
																7q22													
		H0618: 4 and H0253:	3.	H0618: 2 and H0253:	2.	H0253: 2	H0253: 2 and H0618:				H0618: 3 and H0253:	3.		H0253: 4 and H0038:	1.		H0038: 1 and H0616: 1.										H0253: 8 and H0618:	7.	
Pro-47 to Lys-54,	Gly-62 to Arg-72.	Asn-18 to Pro-44,	Val-64 to Phe-70.	Pro-5 to His-12,	Glu-30 to Thr-36.		Ser-20 to Glu-26,	Gly-31 to Ala-46,	Thr-62 to His-67,	Arg-72 to Pro-81.	Ala-4 to Trp-10,	Glu-27 to Gln-32,	Gly-115 to Gly-122.	Asn-7 to Val-12,	Leu-15 to Ser-23.	His-1 to Cys-6,	Glu-24 to Gly-29,	Gln-53 to Asp-59,	Gly-80 to Pro-86,	Glu-142 to Ser-148,	Ser-154 to Val-160,	Pro-163 to Gln-180,	Val-195 to Pro-200,	Lys-205 to Ser-213,	Ala-222 to Glu-228,	Asp-239 to Gly-270.	Gly-11 to Val-29,	Gly-31 to Glu-38,	Ala-40 to Arg-48,
		4140		4141		4142	4143				4144			4145		4146											4147		
		2 - 334		3 - 251		3 - 209	279 - 707				409 - 1041			98 - 313		3 - 812			•								80 - 475		
		1453		1454		1455	1456				1457		į	1458		1459											1460		
		791662		934288		870261	934172				917128			917033		954984											934278		
		HTLEZ14		HTLEZ15		HTLEZ32	HTLFA74				HTLFC20			HTLFE01		HTLFE05											HTLFE20		

		126650, 126650, 154276, 173360, 173360, 602136, 602136, 602136,				·	
		7422					
	H0253: 3 and H0038: 2.	AR089: 19, AR061: 13 7q22 H0618: 8 and H0253: 4.	H0253: 1 and H0038:	H0253: 2	AR061: 3, AR089: 1 H0618: 4, H0253: 4, H0616: 2, L0758: 2 and H0038: 1.	L0758: 2, H0618: 1, H0253: 1, H0616: 1 and L0779: 1.	H0618: 4, L0779: 1 and L0758: 1.
Gly-55 to Val-65, Leu-70 to Thr-76.	Pro-24 to Arg-31, Ile-66 to Leu-72, Asp-90 to Glu-98.	Ala-15 to Asp-23, Thr-44 to Tyr-52.	Asp-13 to Leu-26, Val-38 to Val-76.	Gln-7 to Phe-13, Leu-24 to Val-37, Pro-50 to Leu-65.	Gly-3 to Gly-9, Leu-51 to Gln-58, Leu-67 to Ser-74, His-100 to Pro-106, Arg-132 to Arg-138.	His-27 to Ser-39, His-47 to Pro-55.	Thr-13 to Ser-21, Arg-26 to His-44, Ala-85 to Cys-91,
	4148	4149	4150	4151	4152	4153	4154
	2 - 430	2 - 622	19 - 513	2 - 343	28 - 600	287 - 652	2 - 574
	1461	1462	1463	1464	1465	1466	1467
	775392	953730	781303	573462	870136	835493	789656
	HTLFI28	HTLF139	HTLF183	HTLFJ39	HTLGD25	HTLGD69	HTLGG36

	H0618: 2, H0617: 1 and L0743: 1.	H0618: 2	AR089: 21, AR061: 16 H0618: 32, H0253: 13, H0616: 6, L0758: 3, H0038: 2, L0794: 2,	H0009: 1, H0688: 1, L0769: 1, L0372: 1, L0646: 1, L0363: 1, L0766: 1, L0790: 1, L0665: 1, H0670: 1 and L0779: 1.	H0618: 9, H0253: 1 and L0758: 1.	H0618: 3 and H0253: 3.	L0748: 4, H0618: 3, L0751: 3, L0749: 2, L0777: 2, H0038: 1,	H0616: 1, L0772: 1 and L0775: 1.
Thr-104 to Thr-121, Gly-156 to Arg-163.		Lys-1 to Gly-12, Glu-32 to Phe-41, Arg-69 to Leu-81, Pro-188 to Ile-195.	Arg-1 to Glu-6, Ile-15 to Phe-23, Gly-59 to Phe-72, Pro-95 to Trp-112,	Phe-117 to Pro-129.	Asn-4 to Thr-10, Pro-46 to Asp-51.	Arg-39 to Asn-44, Arg-55 to Gly-62, Arg-98 to Ile-103.	Pro-41 to Gly-57, Leu-76 to Gly-83, Pro-87 to Ser-95,	Glu-97 to Pro-106, Ile-122 to Glu-128, Gln-152 to Arg-166, Thr-180 to Arg-187,
	4155	4156	4157		4158	4159	4160	
	1 - 483	62 - 766	3 - 761		2 - 547	1 - 768	906 - 19	·
	1468	1469	1470		1471	1472	1473	
	868309	964878	952254		918606	958208	870528	
	HTLGK55	HTLGM02	HTLGM07		HTLGT62	HTLGW17	HTLGX90	

	AR061: 7, AR089: 4 H0618: 32, H0253: 13, H0616: 6, L0758: 3, H0038: 2, L0794: 2, H0009: 1, H0688: 1, L0769: 1, L0363: 1, L0766: 1, L0790: 1, L0665: 1, H0670: 1 and L0779: 1.	H0618: 3 and H0253:	H0253: 11, H0618: 8, 20779: 3, L0758: 3 and 20768: 1.	H0038: 2, L0747: 2, H0618: 1, L0665: 1, L0779: 1 and L0758: 1.	AR089: 35, AR061: 7 H0618: 2	H0618: 2	H0618: 2	H0618: 2	H0618: 26, H0253: 20
Leu-191 to Pro-199, Glu-231 to Cys-241, Val-248 to Asp-255.			Gln-1 to Trp-27.	Lys-36 to Glu-45.	Phe-6 to Ala-12, Arg-24 to Arg-35, Leu-66 to Phe-84.	Glu-37 to Gln-42.		Tyr-31 to Arg-42, Met-63 to Leu-69, Tyr-114 to His-123.	Pro-1 to Ala-10,
	4161	4162	4163	4164	4165	4166	4167	4168	4169
	3 - 503	62 - 508	186 - 1103	298 - 164	87 - 455	11 - 181	350 - 604	1 - 381	21 - 893
	1474	1475	1476	1477	1478	1479	1480	1481	1482
	908428	963471	958334	589896	933335	926980	8/0156	946586	870254
	HTLHC14	HTLHE72	HTLHL82	HTLH094	HTLHP32	HTLHP52	HILHP80	HTLHT15	HTLHT24

								118485,	151670,	231680,	272800,	272800,	272800,	276700,	600374,	601780								— ·					
	•							15q23-q25																			:		
and L0758: 1.			L0758: 8, H0618: 4,	H0253: 1, H0038: 1 and	L0769: 1.			H0618: 3									H0618: 2		H0618: 1 and H0253:	1.	H0618: 2, L0764: 2,	H0253: 1, L0492: 1,	H0673: 1 and H0038: 1.		AR089: 7, AR061: 7	H0618: 1 and H0038:	1.	H0618: 2	
Val-27 to Gly-42,	Asp-61 to Asp-66,	Ser-81 to Ala-88.	Gln-10 to Ile-18,	Arg-41 to Ala-59,	His-115 to Lys-128,	Lys-143 to Glu-151,	Thr-164 to Glu-169.	Glu-2 to Thr-7,	Arg-64 to Lys-72,	Glu-77 to Leu-83,	Arg-93 to Ser-102,	Ile-118 to Gln-123.					Ser-134 to Glu-139,	Thr-154 to Leu-160.	Arg-1 to Gln-13,	Phe-16 to Pro-62.	Pro-7 to Lys-15,	Asp-21 to Ser-28,	Gln-53 to Ala-58,	Thr-115 to Asn-127.	Thr-10 to Thr-18,	Pro-58 to Val-65.		Pro-11 to His-17,	Pro-27 to Asp-36,
			4170					4171									4172		4173		4174				4175			. 4176	
			2 - 943					2 - 700									1 - 675		2 - 241		959 - 96				1 - 417			133 - 312	
			1483					1484									1485		1486		1487				1488			1489	
			926950					936139									958321		963475		784817	-			945891			966043	
			HTLHU04					HTLHV67									HTLHZ08		HTLHZ10 963475		HTLIA92				HTLID36			HTLIK11	

																								_				,
																								•				
	L0758: 6, H0616: 3, H0038: 2 and H0618: 1.					H0618: 2	H0618: 1 and H0253:									AR089: 9, AR061: 8	L0758: 12, H0618: 6,	H0038: 3, H0253: 1,	H0050: 1, L0151: 1 and	L0768: 1.		AR089: 9, AR061: 7	L0758: 10, L0794: 3,	H0618: 2, H0038: 2,	H0253: 1, L0768: 1 and	L0789: 1.	AR061: 0, AR089: 0 H0618: 64, H0253: 52.	
Ser-38 to His-43.	Ser-25 to Thr-32, His-50 to Lys-56,	Glu-111 to Asp-116,	Trp-156 to Lys-161,	Leu-189 to Arg-202,	Asp-258 to Thr-264.		Leu-11 to Leu-17,	Pro-22 to Leu-27,	Pro-40 to Lys-46,	Arg-66 to Pro-73,	Thr-91 to Ser-98,	Val-102 to Lys-108,	Gly-125 to Glu-130,	Leu-138 to Asp-144,	Arg-149 to Arg-158.	Pro-13 to Ala-18,	His-30 to Gln-37,	Gly-49 to Ala-66,	Ala-80 to Lys-92,	Glu-98 to Asp-103,	His-119 to Thr-126.	Pro-18 to Asp-23,	Arg-110 to Gln-122.					
	4177					4178	4179									4180		•				4181					4182	
	3 - 899					501 - 644	3 - 659									609 - 94		•				618 - 97					1 - 1368	
	1490					1491	1492									1493						1494					1495	
	958351					931046	870115									946300						947234					942161	
	HTLIP19					HTLIQ09	HTLIR30									HTLIU76						HTLIV78					HTLIY52	

	126650, 126650, 154276, 173360, 173360, 602136, 602136,	Ì			
	126 126 126 173 173 602 602				
	7922				
L0758: 6, L0779: 2, H0392: 1, H0038: 1, L0761: 1, L0803: 1, L0806: 1 and L0697: 1.	H0618: 8 and H0253: 4.	H0618: 2	AR061: 7, AR089: 5 H0618: 12, H0253: 8, H0038: 6, L0758: 6, L0779: 5, H0616: 3, T0041: 1, L0776: 1, S0274: 1 and H0543: 1.	H0618: 1 and H0253:	H0253: 5 and H0618:
	Thr-50 to Tyr-58, Gly-155 to Gln-161, Thr-164 to Gln-175.	Ile-1 to Trp-9, Gly-35 to Val-53, Gly-55 to Glu-62, Ala-64 to Arg-72, Gly-79 to Arg-85.	His-1 to Phe-9, Cys-13 to Thr-18, Pro-35 to Gly-48, Glu-61 to Pro-68, Lys-105 to Ala-136, Thr-144 to Gln-154, Leu-163 to Gly-171, Thr-205 to Gln-222, Pro-251 to Gln-257.	Cys-5 to Ser-15, Pro-36 to Pro-44.	Arg-15 to Glu-25,
	4183	4184	4185	4186	4187
	2 - 814	3 - 572	3 - 1355	1 - 192	161 - 760
	1496	1497	1498	1499	1500
	953729	934279	922923	967336	953714
	HTLJA23	HTLJA24	HTLJC71	HTLJD35	HTLJD88

2.	AR089: 11, AR061: 9 H0253: 7, H0618: 6, L0794: 2, L0779: 2,	L0595: 2, H0687: 1, L0438: 1, L0741: 1 and L0758: 1.	H0618: 3, H0038: 3, H0616: 3 and H0253: 2.	H0040: 3	H0040: 2	H0040: 2	L0770: 3, L0766: 3,	L0759: 3, L0790: 2,	H0659: 2, H0040: 1,	L0776: 1, L0663: 1,	L0665: 1, L0752: 1 and	LU/33: 1.	H0040: 2	H0040: 2		H0040; 2			H0040: 2	
Lys-35 to Val-41, Gln-70 to Pro-100.			Leu-9 to Ser-14.				Leu-10 to Lys-16,	Asn-43 to Ser-49.						Gly-21 to Gly-27,	Pro-38 to Gly-49, Ser-68 to A sn-73	Arg-7 to Cys-13,	Ser-16 to Arg-21,	Ala-28 to Gly-33.	Pro-6 to Asn-13, Thr-25 to Glv-34	
	4188		4189	4190	4191	41.92	4193					7104	4194	4195		4196			4197	
	1 - 921		2-619	132 - 245	74 - 160	2 - 232	3-194					1.001	107 - 1	29 - 274		91 - 255			61 - 309	1,2,
	1501		1502	1503	1504	1505	1506					1507	/001	1508		1509			1510	1 611
	924755		922994	835652	723331	509574	707750					2000	100600	509453		961057			797726	00100
	HTLJJ75		HTLJL23	HTTAD55	HTTAE49	HTTAH87	HTTAJ35					TITTA IEO	HIIAJOU	HTTAN57		HTTAS96			HTTAU82	2 OCT CTATATA

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H0040: 1, L0438: 1	and H0658: 1.	H0031: 1 and H0040:	1.	H0040: 2	AR061: 4, AR089: 3	H0040: 2	H0040: 2	H0040: 2	H0040: 2	H0040: 2	H0040: 2, L0766: 1	and L0758: 1.	AR061: 5, AR089: 2	H0040: 3			H0040: 2	H0040: 3	H0040: 2			H0040: 1 and H0634: 1.	H0040: 3	H0040: 2	H0040: 3 and L0792:
Pro-14 to Gly-20,	Leu-23 to Asn-33.	Ser-16 to Lys-22,	Ser-29 to Gln-35.		Thr-3 to Arg-14.			Glu-74 to Tyr-79.	Asn-1 to Ser-13.				Phe-86 to Tyr-94,		_^	I hr-189 to Glu-197.			Gly-13 to Gly-19,	Pro-38 to Gly-50,	G14-07 to G1y-75.		Ser-2 to Val-16, Pro-50 to Trp-56.		
4199		4200		4201	4202		4203	4204	4205	4206	4207		4208				4209	4210	4211			4212	4213	4214	4215
177 - 326		106 - 264		114 - 266	3 - 263		54 - 176	2 - 262	248 - 391	3 - 101	72 - 185		3 - 1049				191 - 298	78 - 260	26 - 280			3 - 188	155 - 364	47 - 136	3 - 89
1512		1513		1514	1515		1516	1517	1518	1519	1520		1521				1522	1523	1524			1525	1526	1527	1528
530565		530562		530563	530564		578085	869705	925390	530393	529672	-	973210				526385	917155	968131			989698	973307	573641	523452
HTTBH34		HTTBH41		HTTBH54	HTTBJ94		HTTBN67	HTTCA15	HTTCD03	HTTCD71	HTTCL35		HTTCT34				HTTDF50	HTTDF90	HTTDG36			HTTDI21	HTTDJ65	HTTDL38	HTTDL45

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: 2	: 2	1: 2	AR089: 16, AR061: 9	1:2			H0040: 2 and H0670:	H0040: 2 and L0766:): 2); 2	H0253: 3, L0758: 2,	H0618: 1, H0038: 1 and	1.): 2	H0618: 1 and H0040:): 2): 2): 2	H0040: 2, L0439: 2,	L0438: 1 and L0747: 1.			H0040: 2, H0616: 1,	L0794: 1, L0779: 1 and
H0040: 2	3, H0040: 2 27.	H0040: 2		26, H0040: 2	37,	.61		H0040	l. H0040: 2	H0040: 2			H0040: 1	H0040: 2		33. 1.	H0040: 2	H0040: 2	H0040: 2	-		7,	-119.		
	Gln-8 to Ser-13, Asp-20 to Tyr-27		Thr-3 to Lys-9,	Gly-14 to His-26,	His-30 to Lys-37,	Lys-43 to Ser-49.	Phe-25 to Phe-38.	Ile-3 to Lys-9.	Gly-8 to His-21		Pro-33 to Arg-43,	Ala-48 to Tyr-57.			Ser-11 to Ala-19,	Lys-27 to Ala-33.				Lys-8 to Val-20,	Ser-72 to Ala-77,	Ala-84 to Ser-92,	Leu-110 to Lys-119	Ser-1 to Gln-7,	Arg-9 to Glu-14,
4216	4217	4218	4219				4220	4221	4222	4223	4224			4225	4226		4227	4228	4229	4230				4231	
183 - 341	52 - 387	89 - 313	1 - 333		,		150 - 440	110 - 280	190 - 330	217 - 387	1 - 480			125 - 298	2-313		227 - 349	149 - 286	102 - 209	2 - 766				85 - 285	
1529	1530	1531	1532				1533	1534	1535	1536	1537			1538	1539		1540	1541	1542	1543				1544	
959837	734318	783444	908937				573685	790336	273666	920589	921100			809769	523206		573719	747943	745985	967819		_		573614	
HTTDL89	HTTDN40	HTTDN85	HTTD019				HTTD037	HTTDR91	HTTDR92	HTTDS02	HTTDX84			HTTDZ54	HTTDZ91		HTTEB33	HTTEH58	HTTEL50	HTTEU68				HTTEV62	

																											•
																					133701	168500,	171650,	176930,	176930,	600623	600811,
										•								17q			11p11.2-p11.1 133701,						
L0758: 1.		H0040: 4	H0040: 2, H0435: 1,	L0439: 1 and L0759: 1.	H0040: 2	H0040: 1, S0150: 1 and	L0601: 1.	H0040: 2	H0040: 5	H0040: 2, H0169: 1	and L0753: 1.	H0040: 2	H0040: 2, L0794: 2,	L0659: 1, L0809: 1,	L0779: 1 and L0752: 1.	H0040: 3		H0040: 2, L0805: 1	AR061: 6, AR089: 2	H0040: 2	H0040: 2, L0748: 2,	L0749: 2 and L0766: 1.					
Pro-16 to Val-24,	Arg-35 to Asp-40.		Ala-1 to Ala-7,	Gly-53 to Lys-67.	Arg-40 to Asn-45.				Asp-14 to Gln-22.				Arg-25 to Trp-32.			Gly-15 to Gly-21,	Pro-31 to Pro-46.										
		4232	4233		4234	4235		4236	4237	4238		4239	4240			4241		4242	4243		4244						
		207 - 464	598 - 804		168 - 329	1 - 408		2 - 220	1 - 183	235 - 441		139 - 285	36 - 263			99 - 419		52 - 219	141 - 1079		1 - 273						
		1545	1546		1547	1548		1549	1550	1551		1552	1553			1554		1555	1556		1557						
		974107	917903		771602	841078		999698	778426	974284		757358	787599			974346		750942	950051		825922						
	•	HTTEY64	HTTEY67		HTTEZ34	HTTFA16		HTTFB60	HTTFG35	HTTFG83		HTTFH70	HTTFK90			HTTFL89		HTTFM17	HTTFM66		HTTFS59						

856009																							
																i							
	H0040: 3	H0040: 2	H0615: 1 and H0040:	L0748: 13, L0770: 4, L0777: 3, H0040: 2,	L0794: 2, L0528: 2,	L0789: 2, L0758: 2,	H0685: 1, H0688: 1,	L0662: 1, L0768: 1,	L0766: 1, L0657: 1,	L0526: 1, L0809: 1,	L0439: 1 and L0740: 1.	H0040: 2 and H0634:	H0634: 2	L0755: 3, L0766: 2,	H0031: 1, H0634: 1,	L0439: 1 and L0759: 1.	H0634: 2	H0634: 2	H0040: 1 and H0634:	H0040: 1, H0634: 1	and L0485: 1.	H0634: 2	H0634: 2
	Asn-23 to Gln-29, Arg-37 to Asn-43.	Asp-36 to Lys-41.										Lys-20 to Lys-27.	Tyr-12 to Gly-17.				His-54 to Ser-61.	Lys-47 to Asp-56.				Gln-15 to Thr-20.	Ala-17 to Gln-28,
	4245	4246	4247	4248								4249	4250	4251	•		4252	4253	4254	4255		4256	4257
	34 - 207	691 - 24	53 - 202	63 - 212								114 - 329	436 - 606	207 - 542			2 - 235	2 - 247	32 - 226	547 - 717		338 - 553	158 - 430
	1558	1559	1560	1561								1562	1563	1564			1565	1566	1567	1568		1569	1570
	934460	925544	923105	924775							-	974066	931004	953479		•	926752	969638	569698	934089		869634	931015
	HTTFT08	HTTFV93	HTTFW03	HTTFX21								HTTFZ70	HTTHH05	HTTHU43			HTTIG04	HTTIH23	HTTIH80	HTTIL06		HTTIN23	HTTIU05

	H0634: 3	H0634: 2	H0040: 1, H0634: 1	and L0803: 1.	H0040: 1 and H0634:	1.	H0634: 2			H0634: 2	H0040: 1 and H0634:	1.	H0040: 1 and H0634:	1.	H0634: 2	H0549: 1 and H0634:	1.	H0040: 2 and H0634:	1.	H0634: 2	H0634: 3	H0634: 3	H0634: 3	H0634: 1, H0672: 1	and L0740: 1.	AR089: 1, AR061: 1	H0634: 2	H0634: 2
Pro-73 to Thr-83.		Ser-60 to Pro-69.			Glu-61 to Lys-66,	Met-76 to Asn-83.	Gln-11 to Gly-17,	Glu-26 to Ser-36,	Arg-53 to Ala-60.	Pro-14 to Pro-20.			Arg-29 to Arg-41.			Lys-13 to Arg-21,	GIY-20 to 1 nr-30.							Asn-54 to Leu-60.		Thr-15 to Asp-25,		Ala-12 to Gly-22,
	4258	4259	4260		4261	٠	4262			4263	4264		4265		4266	4267		4268		4269	4270	4271	.4272	4273		4274		4275
	294 - 446	112 - 354	13 - 240		18 - 356		3 - 182			137 - 283	61 - 177		1 - 147		169 - 276	2 - 448		1 - 189		56 - 181	210 - 383	228 - 362	354 - 509	166 - 429		2 - 337		65 - 484
	1571	1572	1573		1574		1575			1576	1577		1578		1579	1580		1581	_	1582	1583	1584	1585	1586		1587		1588
	922817	930994	839725		869618		869615			913799	934130		974063		958170	948750		960928		915033	974311	974316	974310	920893		911390		926795
	HTTIW81	HTTIZ05	HTTJA11		HTTJA47		HTTJH13			HTTJM01	HTTJQ06		HTTJX68		HTTJY08	HTTKD44		HTTKF89		HTTKG34	HTTKK06	HTTKL80	HTTKN21	HTTKN30		HTTKP07		HTTKS13

				:1:												I.										
		H0634: 2	S0042: 2	H0038: 1 and S0042: 1	H0059: 2		H0059: 2	H0059: 2	H0059: 3	H0059: 2	H0059: 2	H0059: 2	H0059: 2	H0059: 2	H0059: 2, L0657: 1,	LU609. 1 allu LU/69. 1	H0059: 2 and L0766:			H0059: 2	H0059: 2		H0059: 2	H0059: 2 and L0803:	2.	
Pro-38 to Ser-45,	Ala-77 to Pro-83, Ala-88 to Gly-93.	Thr-1 to Gln-7, Glv-13 to Gln-37			Ala-4 to Val-11,	Gly-58 to Leu-64.		Glu-1 to Arg-14.		Gly-23 to Pro-31.	Pro-1 to Lys-7.	Ser-27 to Thr-35.	Asp-13 to Gln-19.		Pro-19 to Pro-28.		Le-49 to Gly-63,	Ile-66 to Asp-77,	Gly-84 to Ser-90.		Arg-1 to Ser-6,	Tyr-11 to Asp-17.		Thr-14 to Trp-20,	Gly-25 to Pro-30,	GIn-42 to 1 rp-60.
		4276	4277	4278	4279		4280	4281	4282	4283	4284	4285	4286	4287	4288	0001	4289			4290	4291		4292	4293		
		2 - 193	3 - 224	2 - 163	308 - 81		210 - 347	1 - 309	122 - 322	36 - 164	57 - 224	26 - 334	3 - 164	139 - 327	126 - 254		2 - 271			253 - 62	3 - 122		103 - 294	3 - 302		
	·	1589	1590	1591	1592		1593	1594	1595	1596	1597	1598	1599	1600	1601	000,	1602			1603	1604		1605	1606		
		830008	529157	739638	503626		503445	966804	954420	954359	529727	531165	531163	531110	531108	0,000	57777			714187	967604		526819	537530		
		HTTKV17	HUDAM29	HUDBZ78	HUKAA62		HUKAB80	HUKAC72	HUKAM82		HUKCC86		HUKDH50	HUKEH36	HUKEH50		HUKEKSS			HUKE055	HUKES11		HUKFL69	HUKFV41		

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AR061: 69, AR089: 1 H0046: 1 and H0059: 1.	T0069: 2	H0056: 2	H0056: 2	H0056: 3	H0056: 7				H0056: 10 and S0134: 1.	H0056: 1, H0623: 1	and L0748: 1.	H0056: 2		H0056: 8	H0056: 6 and L0547:	H0056: 2	H0056: 11, L0805: 2,	L0789: 2, S0358: 1,	LU3/3: 1, LU//6: 1,	L0743: 1, L0777: 1 and	L0759: 1.	H0056: 2
Cys-18 to Ser-24, Gly-29 to Gln-37.	Thr-1 to Asn-10, Ser-18 to Lys-31.			Thr-35 to Asn-45.	Asp-14 to Ala-30,	Val-33 to Tyr-39,	Ile-52 to Lys-58,	Thr-83 to Arg-88.	Ile-1 to Asn-8.	Asn-1 to Ala-14,	Arg-30 to Gly-37.	Leu-40 to Leu-45,	Phe-55 to Leu-60.	Arg-6 to Ala-26.		Gly-1 to Ser-10.						Pro-27 to Trp-38, Leu-48 to Arg-56.
4294	4295	4296	4297	4298	4299				4300	4301		4302		4303	4304	4305	4306					4307
2 - 112	1 - 135	184 - 342	145 - 231	122 - 289	3 - 371				163 - 372	1 - 243		79 - 279		139 - 309	38 - 220	151 - 297	3 - 176					1 - 177
1607	1608	1609	1610	1611	1612				1613	1614		1615		1616	1617	1618	1619					1620
946931	575299	503042	502903	933023	928053		,		868795	914768		699896		535361	535006	509119	921088					707061
HUKFX63	HUNAD94	HUVBB90	HUVBB93	HUVBC12	HUVCQ07				HUVCQ55	HUVCS14		HUVCU71		HUVCW62	HUVDB28	HUVDB53	HUVDC15					HUVDD09

																•												
H0056: 2		H0056: 2	H0056: 3	H0056: 2, H0623: 1	and L0439: 1.	H0056: 3 and H0623:		H0056: 2	H0623: 2, H0056: 1	and L0748: 1.	H0056: 2 and H0623:		H0623: 2, H0056: 1	and L0758: 1.	H0056: 1 and H0623:		H0040: 1, H0056: 1,	H0623: 1, L0755: 1 and	592: 1.	H0056: 2	H0056: 2	H0056: 2, H0615: 1	and H0623: 1.	H0056: 2 and H0623:		H0056: 1 and H0623:		H0056: 1 and H0623:
			H			H .	3.			anc	H	2	H	anc	H	1.				H			В	H	1.	,	-	퓌
Arg-1 to Ser-6,	Arg-13 to Ser-18		Gly-1 to Arg-12.	Glu-13 to Phe-18,	Gly-46 to Ala-56.			Lys-16 to Lys-36.	Ser-21 to Thr-29.		Phe-7 to Trp-22.		Ala-2 to Gly-9.				Lys-31 to Gln-40,	Gln-42 to Met-49,	Lys-74 to Thr-82.		Gln-20 to Cys-26.	Arg-12 to Gly-17.				Leu-22 to Ser-31.		
4308		4309	4310	4311		4312		4313	4314		4315		4316		4317		4318			4319	4320	4321		4322		4323		4324
1 - 225		2 - 214	3 - 257	29 - 241		111 - 293		3 - 110	233 - 412		1 - 81		224 - 415		3 - 263		318 - 572			1 - 150	75 - 164	3 - 110		148 - 354		170 - 343		175 - 330
1621		1622	1623	1624		1625		1626	1627		1628		1629		1630		1631			1632	1633	1634		1635		1636		1637
961020		526248	522823	530558		719332		230387	679477		530386		958027		099898		430750			534783	527937	530094		622898		967815		868782
HUVDF13 961020		HUVDF84	HUVDF88	HUVDI28		HUVDI76		HUVDL30	HUVD025		HUVDP95		HUVDS26		HUVDU51		HUVED35			HUVED54	HUVED65	HUVEN50		HUVFA55		HUVFB48		HUVFB69

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1.	H0623: 2 and L0759: 1.	H0623: 2	H0623: 3	H0056: 1 and H0623:	H0623: 2	H0623: 2, L0749: 2,	H0056: 1 and L0794: 1.			H0623: 2	H0623: 3	H0623: 2 and L0534:			H0623: 3, H0616: 1	and L0748: 1.		H0545: 1 and H0623:	1.		H0623: 2		AR089: 2, AR061: 1	H0623: 2, H0056: 1,	L0803: 1, L0750: 1 and
	Phe-1 to Gly-8.	Phe-3 to Arg-8, Arg-21 to Ser-27.	Ser-27 to Gly-32.		Ser-46 to Pro-57.	His-7 to Thr-18,	Gly-53 to Phe-59,	Pro-67 to Ser-74,	Val-/6 to Leu-85.	Asp-1 to Arg-7.		Thr-3 to Ala-12,	Ser-27 to Ala-32,	Ala-38 to Glu-44.	Arg-1 to Ser-8,	Pro-13 to Pro-18,	Glu-55 to Trp-64.	Asp-1 to Asn-10,	Thr-29 to Trp-43,	Trp-62 to Ser-68.	Thr-9 to Asp-17,	Asp-43 to Arg-48.	Lys-1 to Cys-8,	Glu-31 to Ser-37,	Val-98 to Pro-105.
	4325	4326	4327	4328	4329	4330				4331	4332	4333			4334			4335			4336		4337		
	85 - 240	240 - 362	160 - 294	3 - 131	119 - 328	435 - 734				3 - 128	213 - 374	20 - 286			97 - 417	•		3 - 371			225 - 422		2 - 382	•	
	1638	1639	1640	1641	1642	1643				1644	1645	1646			1647			1648			1649		1650		
	952080	922064	934003	922898	965765	868784				958059	922727	918233			870617			692898			933942		691606		
	HUVFC07	HUVFH03	HUVFH32	HUVF103	HUVFK11	HUVFK58				HUVFL71	HUVFQ03	HUVFR02	•		HUVFT28			HUVFT50			HUVFZ06		HUVGZ77 909169	•	

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											22q13.33 ·																
L0779: 1.	H0056: 1 and H0623:	H0623: 3	AR089: 3, AR061: 1	H0040: 1, H0056: 1	and H0623: 1.	H0623: 2	H0623: 2 and H0056:	1.	H0056: 1, H0623: 1	and L0367: 1.	H0623: 2 and L0731:	-				H0623: 2	H0666: 339, H0660: 3,	L0751: 2, H0676: 1,	H0560: 1 and H0520: 1.	H0666: 5	H0666: 2	H0666: 222, L0776: 5,	L0749: 3, S0358: 2,	L0763: 2, L0766: 2,	L0439: 2, L0596: 2,	H0650: 1, H0341: 1,	S0442: 1, H0009: 1,
	•	Pro-35 to Ser-46.	Pro-5 to Trp-10,	Phe-20 to Met-26,	Leu-85 to Trp-92.		Lys-21 to Lys-27.		Leu-23 to Ser-35.		Leu-51 to Val-56,	Ala-69 to Arg-74,	Thr-82 to Thr-91,	Asp-116 to Ile-126,	Ala-142 to Pro-147.	Thr-47 to Arg-53.	Ala-47 to Phe-55.			His-1 to Ser-6.		Arg-8 to Gly-19,	Pro-22 to Cys-29,	Asp-54 to Cys-65,	Ser-68 to Ala-77,	Glu-97 to Ser-103,	Pro-171 to Leu-176.
	4338	4339	4340			4341	4342		4343		4344					4345	4346			4347	4348	4349					
	145 - 354	200 - 400	51 - 344			158 - 39	33 - 221		313 - 522		1 - 486					198 - 361	3 - 206			519 - 632	3 - 62	3 - 560			•		
	1651	1652	1653			1654	1655		1656		1657					1658	1659	•		1660	1991	1662					
	868751	963129	908555		-	868697	205896		952090		924621					868649	807696			925844	933449	925796					
	HUVHB35	HUVHB59	ниунс93			HUVHD88	HUVHG80		HUVHII07		HUVHO40					HUVHU74	HVCAZ38			HVCBV04	HVCCC81	HVCCK04					

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· ::					72:	1 1			2	5: 5,					
H0178: 1, H0012: 1, H0087: 1, S0150: 1, L0805: 1, L0655: 1, L0657: 1, L0659: 1, L0783: 1, L0809: 1, L0789: 1, L0663: 1, S0374: 1, L0602: 1, L0731: 1 and L0758: 1	H0672: 2	H0644: 1, H0658: 1 and H0672: 1.	H0672: 2	H0672: 2	L0666: 3 and H0672: 2.	AR061: 1, AR089: H0038: 1, H0672:	H0672: 2	H0672: 2	AR089: 3, AR061:	H0651: 709, L0766: 5,	1.0803·2 1.0779·2	L0759: 2, S0354: 1,	H0643: 1, H0013: 1	H0194: 1, H0545: 1	H0373: 1, H0252: 1 H0615: 1, H0316: 1
		Asp-34 to Glu-40.			Cys-14 to Tyr-21.	Glu-38 to Lys-43, Gly-125 to Thr-132.		Lys-12 to Trp-18, Phe-35 to Thr-42.	Cys-17 to Lys-31.				•		
	4350	4351	4352	4353	4354	4355	4356	4357	4358						
	85 - 273	83 - 277	1 - 240	1 - 171	710 - 480	2 - 397	3 - 104	67 - 294	78 - 410						
	1663	1664	1665	1666	1667	1668	1669	1670	1671						
	949141	914354	933675	<i>L</i> 96896	964102	933167	917559	913996	957834						
·	HVVAC41	HVVAJ01	HVVAJ06	HVVBG19	HVVBK45 964102	HVVBK72	HVVBV44		HWLH168						

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																										179605, 179605.	,
																										6p21.1-p12	
H0040: 1, H0641: 1, H0647: 1, S0422: 1,	L0598: 1, L0369: 1, L0520: 1, L0762: 1,	L0649: 1, L0804: 1,	L0527: 1, L0656: 1,	H0144: 1, H0702: 1,	H0547: 1, H0555: 1,	H0436: 1, S0028: 1,	L0746: 1, L0750: 1,	L0777: 1, L0780: 1,	L0752: 1 and L0686: 1.	L0766: 1 and H0672:	1.	AR089: 14, AR061: 6	H0672: 1	L0731: 2, L0635: 1,	L0663: 1, H0672: 1 and	L0777: 1.	L0470: 1 and H0623:	1.	L0471: 1 and H0623:	1.	L0766: 3, H0623: 1,	L0740: 1, L0745: 1 and	L0779: 1.	H0623: 1 and L0439:	11.	AR089: 2, AR061: 2 6p21.1-p12 H0623: 1	
														Pro-33 to Gly-38,	Leu-45 to Thr-51.		4362 Glu-28 to Arg-36,	Pro-41 to Thr-50.			Ala-18 to Arg-25.						
										4359		4360		4361			4362		4363		4364			4365		4366	
							-			137 - 3		2 - 406		288 - 443			215 - 580		1856 - 2053		2 - 397			443 - 204		61 - 1212	
										1672		1673		1674			1675		1676		1677			1678		1679	
									-	925793		927658		933528			912011		952479		930892	•		189056		945834	
										HVVDT04		HVVBY08		HVVBM06			HUVHL82		HUVHI06		HUVGP05			HUVFP71		HUVF101	

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179605, 179605, 179605, 180297, 230450,	248611, 263200, 600364,	601498, 601690																		
													:				ď			1.
			H0623: 1 and L0777: 1.	H0056: 1		H0056: 1	110011	H0056: 1	H0056: 1	H0056: 1	H0056: 1			H0056: 1	L0745: 3, L0752: 3,	H0056: 1, L0761: 1,	L0803: 1, L0749: 1 an	L0759: 1.	H0055: 1	T0069: 1 and L0779: 1.
				Gln-26 to Gln-33,	Arg-38 to Thr-45.	Ile-1 to Leu-10,	GIY-34 to Cys-11.		Gly-12 to Ser-17.	Ser-10 to Arg-15.	Lèu-12 to Trp-20,	Ile-29 to Val-34,	Ser-52 to Arg-60.	Arg-17 to Ser-38.		Phe-48 to Phe-54.				
			4367	4368		4369	0207	4370	4371	4372	4373			4374	4375				4376	4377
			112 - 258	13 - 177		2 - 277	0.00	200 - 313	1 - 144	80 - 343	. 102 - 07			1 - 147	2 - 199				521 - 384	120 - 278
			1680	1681		1682	0000	1683	1684	1685	1686			1687	1688				1689	1690
·			922889	868783		967813	, 00, 20	954224	521938	526590	974232			522660	671479				667943	839574
·			HUVFE03	HUVDO18 868783		HUVD011	- 1	HUVDO07	HUVDM27	HUVDH61 526590	HUVCU26 974232			HUVCM76	HUVBC21 671479				HUVAA46	HUNAK12

							P			•			-	•	•	•												
L0439: 4 and T0069: 1.	AR050: 45, AR051:	, AR054: 35	.0069: 1	T0069: 1, L0764: 1,	L0771: 1, L0783: 1 and	.0756: 1.	L0754: 4, T0069: 1 and	.0599: 1.	T0069: 1		T0069: 1 and L0764: 1.		T0069: 1 and L0766: 1	T0069: 1 and L0754: 1	L0748: 2 and T0069: 1	T0069: 1 and L0747: 1	H0059: 1 and L0756:		H0059: 1 and L0752:		H0059: 1	H0059: 1	AR054: 9, AR050: 2,	AR051: 1	H0059: 1	H0059: 1 and L0747:		L0766: 2 and H0059:
Ser-33 to Ser-38.		Thr-38 to Pro-46. 39			Pro-44 to Asn-49. LC		I	TC	Ala-8 to Ser-14,	Lys-21 to Pro-29.	Thr-26 to Pro-36, T	Ile-52 to Ser-60.	L	Asn-1 to Asn-6.	1	Lys-1 to Asn-9.	1	11.	Leu-32 to Tyr-38.	1.	Gly-19 to Ser-24.	F	W	<u> </u>	H H	1	7	Arg-26 to Arg-31. I
4378	4379			4380			4381		4382		4383		4384	4385	4386	4387	4388		4389		4390	4391	4392			4393		4394
185 - 352	3 - 221			171 - 326			2 - 205		50 - 214		2 - 388		294 - 491	65 - 199	2 - 190	3 - 170	53 - 151		1 - 174		2 - 241	67 - 213	263 - 433			83 - 226		47 - 364
1691	1692			1693			1694		1695		1696		1697	1698	1699	1700	1701	•	1702		1703	1704	1705			1706		1707
711543	800452			961527			796691		524239		921132		968590	753817	968754	714264	754186		574525		760581	574523	577349			574381		796014
HUNAG41	HUNAF22			HUNAF20			HUNAE95		HUNAE76		HUNAE02		HUNAD10	HUNAC68	HUNAB76	HUNAB42	HUKFS69		HUKFL89		HUKFL71	HUKFL52	HUKFK53			HUKFE56		HUKFD95

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1.	H0059: 1 and L0779:	H0059: 1 and L0439:	AR061: 14, AR054: 11, AR050: 9, AR089: 4	L0758: 2, H0059: 1, L0789: 1, L0665: 1, L0749: 1 and L0779: 1.	H0059: 1, L0439: 1 and L0747: 1.	L0455: 1, H0059: 1 and L0753: 1.	L0465: 2 and H0059:	H0059: 1, L0657: 1 and L0748: 1.	L0766: 2, H0059: 1, L0764: 1 and L0774: 1.		H0059: 1	H0059: 1	H0059: 1
	Pro-7 to Gly-18.					Met-23 to Gly-34, Glu-40 to Ser-50.		Lys-27 to His-35.	Arg-1 to Asp-7, Glu-26 to Ser-31,	Glu-51 to Val-56, Asp-59 to Val-69, Glu-85 to Asn-94.	Phe-8 to Glu-15, Val-20 to Thr-25,	Cys-40 to Glu-49.	Pro-18 to Cys-25.
	4395	4396	4397		4398	4399	4400	4401	4402		4403	4404	4405
	29 - 178	532 - 119	852 - 265		234 - 482	33 - 185	3 - 329	1 - 105	76 - 450		77 - 229	84 - 260	2 - 106
	1708	1709	1710		1711	1712	1713	1714	1715		1716	1717	1718
	921504	772501	957456		920815	719465	968333	690933	967742		529718	529723	518537
	HUKEY01	HUKER62	HUKEP18		HUKDY02	HUKDU47	HUKDG10 968333	никсР30	HUKCO11 967742		HUKCL85	HUKCC25	HUKCC15

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															•								
H0059: 1	H0059: 1 and L0748:	L0748: 2 and H0059:	H0059: 1	H0059: 1, L0800: 1,	L0794: 1, L0789: 1,	L0/4/: 1, L0/50: 1 and L0362: 1.	H0059: 1, L0775: 1,	L0664: 1 and L0592: 1.		L0750: 2 and H0059:	1.	H0059: 1	H0059: 1 and L0755:			H0059: 1	H0059: 1, L0520: 1,	L0753: 1 and L0731: 1.	H0059: 1	L0439: 2 and H0059:	-		AR050: 75, AR054: 59, AR051: 51
Arg-16 to Cys-22, Pro-83 to Thr-88.			Ala-47 to Thr-53.	Asp-34 to Arg-41,	Glu-44 to Lys-50.		Arg-1 to Gln-7,	Gln-11 to Ser-17,	Ser-41 to His-46.			Lys-1 to Gln-8.	Ser-30 to Val-38,	Gln-44 to Ser-53,	Pro-56 to Gly-63.	Trp-10 to Gly-16.			•				Arg-7 to Arg-13, Asn-31 to Ser-37.
4406	4407	4408	4409	4410			4411			4412		4413	4414			4415	4416		4417	4418		5346	4419
399 - 136	351 - 178	379 - 170	150 - 329	314 - 117			139 - 402			159 - 1		317 - 102	2 - 421			1 - 207	274-2		369 - 67	286-2		156 - 434	213 - 533
1719	1720	. 1721	1722	1723			1724			1725		1726	1727			1728	1729		1730	1731		2659	1732
628540	502711	502911	672076	502912			716927			790487		524257	772734			625273	677470		503630	503627		503628	869026
HUKAT59	HUKAQ76	HUKAO47	HUKAM19	HUKAM18			HUKAL44			HUKAJ91		HUKAJ83	HUKAD77			HUKAB63	HUKAB25		HUKAA54	HUKAA39			HUDBZ01

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S0042: 1		AR054: 2, AR051: 0,	AR050: 0 S0042: 1	S0042: 1	S0042: 1	S0042: 1		S0042: 1					S0042: 1			AR051: 32, AR050.	31, AR054: 25	S0042: 1					L0783: 1, L0439: 1,	L0731: 1 and S0042: 1.	H0634: 1 and L0593:	1.	H0634: 1, L0662: 1 and L0766: 1.
		Gly-43 to Leu-48,	Ser-57 to Lys-67.	•		Glu-17 to Ala-30,	Gly-42 to Thr-56.	Glu-1 to Leu-6,	Cys-10 to Asn-28,	Lys-41 to Tyr-50,	Gln-53 to Ser-60,	Pro-67 to His-78.	Phe-2 to Arg-7,	Asn-23 to Asn-32,	Gln-39 to Asn-45.	Thr-14 to Phe-26,	Gln-46 to Arg-52,	Leu-74 to Tyr-84,	Glu-125 to Glu-132,	Tyr-180 to Ser-186,	Leu-216 to Pro-222,	Val-226 to His-231.	Glu-27 to Glu-33.		Thr-1 to Ser-10.		
	5347	4420		4421	4422	4423		4424					4425			4426							4427		4428		4429
	191 - 3	77 - 487		147 - 248	26 - 286	896 - 66		3 - 374					3 - 137			18 - 710							109 - 234		1-171		380 - 240
	2660	1733		1734	1735	1736		1737					1738			1739							1740		1741		1742
	915945	896368		795796	746508	869034		686520					917361			899753		•					671974		969547		956206
		HUDBK39		HUDBE95	HUDBE64	HUDBE48		HUDBE28					HUDBE02			HUDAK54						•	HUDAK19		HTTKG12		HTTKC85

H0634: 1 and L0766:	L0770: 3, L0777: 3, L0518: 2, L0779: 2, L0758: 2, L0608: 2, H0634: 1, L0764: 1, L0803: 1, L0749: 1 and	H0634: 1 and L0565:	H0634: 1, L0803: 1, L0749: 1 and L0779: 1.	H0634: 1	H0634: 1, L0766: 1 and L0588: 1.	L0745: 2 and H0634:	H0634: 1 and L0731:	H0634: 1 and L0748: 1.	L0157: 1 and H0634: 1.	H0040: 1	H0040: 1 and L0439:
	Glu-53 to Gln-62, Gly-80 to Val-86.	Gln-1 to Trp-16, Asp-18 to Gly-25, Leu-38 to Pro-43, Trp-146 to Gly-153.		Lys-11 to Glu-18.			Ala-10 to Thr-16.	Pro-25 to Thr-31, Pro-59 to Gly-72.	Asn-1 to Arg-11, Val-23 to Ser-28, Asp-35 to Tyr-44.	Leu-21 to Gly-30.	Ser-24 to His-34.
4430	4431	4432	4433	4434	4435	4436	4437	4438	4439	4440	4441
61 - 213	132 - 497	2 - 577	395 - 532	136 - 345	86 - 235	452 - 625	195 - 329	1 - 216	87 - 218	128 - 373	146 - 301
1743	1744	1745	1746	1747	1748	1749	1750	1751	1752	1753	1754
869602	869612	934094	931024	974323	926772	965920	958169	895696	944914	751809	742004
HTTIV79	HTTJN26	HTTJK06	HTTIX05	HTTIR33	HTTIR04	HTTIN11	HTTTE08	HTTB12	HTTHJ56	HTTFG12	HTTEZ61

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							104770,	107670,	110700,	135940,	145001,	146790,	152445,	152445,	159001,	174000,	179755,	182860,	182860,	182860,
							1921													
H0040: 1, L0766: 1 and L0748: 1.	H0040: 1, L0803: 1, L0439: 1 and L0777: 1.	AR061: 5, AR089: 5 H0040: 1	H0040: 1, L0740: 1 and L0747: 1.	AR050: 2, AR051: 1, AR054: 0	L0439: 3 and H0040: 1.	L0483: 1 and H0040:	L0754: 2 and H0040: 1	1.												
	Pro-28 to Thr-38, Gly-47 to Arg-52.	Gly-1 to Asp-8, Leu-15 to Cys-20,	Arg-2 to Ile-8, Ser-34 to Cys-44.	Pro-1 to Glu-7, Thr-29 to Gly-35,	Glu-63 to Ile-68, Glu-89 to Asn-95, Glu-98 to Leu-105.	Arg-10 to Asp-15.	Arg-1 to Trp-9,	Pro-13 to Gly-19,	Gly-24 to Pro-32.											
4442	4443	4444	4445	4446		4447	4448													
57 - 230	2 - 205	1-153	396 - 545	1 - 339		1 - 387	511 - 747													
1755	1756	1757	1758	1759		1760	1761													
739445	917156	900662	728344	573669		932294	744438			•										
HTTEQ59 739445	нттеQ01	HTTE059	HTTE053	HTTEJ56		HTTEB05	HTTD059													

191315, 230800, 230800, 266200, 600897, 601105, 601412, 601652, 602491										
	AR061: 5, AR089: 5 L0748: 2 and H0040: 1.	H0040: 1 and L0748: 1.	H0040: 1, L0742: 1 and L0592: 1.	H0040: 1 and L0748:	H0040: 1 and L0755:	L0745: 2 and H0040:	L0754: 2 and H0040:	H0040: 1 and L0748: 1.	H0040: 1 and L0592: 1.	L0764: 2 and H0040:
		Ala-4 to Pro-22.	Gly-10 to Cys-16, Arg-25 to Trp-31, Pro-39 to Pro-46.	Arg-83 to Arg-88.	Cys-19 to Pro-29.	Ala-50 to Asp-55.	Lys-15 to Asn-23, Asp-75 to Val-82.	Pro-7 to Ala-26.		Arg-12 to Gly-20,
	4449	4450	4451	4452	4453	4454	4455	4456	4457	4458
	177 - 401	2 - 241	41 - 178	3 - 392	2 - 241	63 - 266	162 - 413	3 - 236	3 - 272	1-615
	1762	1763	1764	1765	1766	1767	1768	1769	1770	1771
	460948	694222	766551	784537	796674	709581	665096	524841	714220	932997
	HTTDM42	HTTDL81	HTTDL75	HTTDA85	нттс095	HTTCJ39	HTTCD06 960599	HTTCB87	HTTBR42	HTTBP62

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٠	H0040: 1 and L0748:	H0040: 1 and L0753:	H0040: 1 and L0766:	H0040: 1	H0040: 1 and L0439:	H0040: 1	L0748: 3 and H0040:	H0040: 1		L0747: 2 and H0040:	H0040: 1 and L0591:	L0595: 2, H0040: 1 and L0794: 1.	L0748: 2 and H0040:	L0769: 2 and H0040:	•		L0752: 2, H0040: 1
His-102 to Ser-108, 1 Ala-132 to Gln-137.	Asn-24 to Asp-32.	Arg-18 to Trp-29.	Asp-1 to Gln-14, Phe-18 to Gly-33.	Tyr-1 to Tyr-12.	1		Asn-1 to Cys-12, Asn-20 to Tm-37			1	1	Ser-4 to Lys-12.	1	Ile-15 to Phe-21,	Pro-31 to Cys-39, 11	Leu-69 to Pro-74.	
	4459	4460	4461	4462	4463	4464	4465	4466	5348	4467	4468	4469	4470	4471	•		4472
	367 - 170	11 - 202	3 - 203	125 - 256	175 - 435	186 - 311	367 - 627	65 - 262	151 - 342	632 - 787	252 - 440	111 - 230	220 - 420	73 - 294			435 - 632
	1772	1773	1774	1775	1776	1777	1778	1779	2661	1780	1781	1782	1783	1784			1785
	780164	925409	781590	530559	767520	530567	742377	717736	869717	671488	826343	509454	791413	965134			772735
	HTTB082	HTTBM03	HTTBI80	HTTBH95	HTTBH75	HTTBH36	HTTAQ60	HTTAP45		HTTAP21	HTTAP09	HTTAN34	HTTAJ93	HTTAH03			HTTAC77

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and L0756: 1.	L0749: 2, H0040: 1, L0748: 1 and L0591: 1.	H0040: 1 and L0731: 1.	H0618: 1, L0751: 1 and L0758: 1.	H0618: 1	H0618: 1 and L0731:	1.	L0591: 2 and H0618: 1.	L0439: 3 and H0618: 1.	H0618: 1 and L0770:			H0618: 1 and L0771:	-		AR054: 35, AR051:	24, AR050: 10, AR061:	8, AR089: 3	H0618: 1, L0766: 1	and L0749: 1.			H0618: 1, L0749: 1
	Asn-14 to Leu-20, Gln-30 to Pro-46.			Gln-10 to Ser-16.	Pro-8 to Ala-15,	Arg-23 to Glu-35, Pro-41 to Val-49.		Glu-33 to Arg-40.	Lvs-34 to Pro-40.	Glu-51 to Gly-56,	Glu-117 to Gly-124.	Pro-42 to Ser-47,	Ala-51 to Arg-68,	Leu-109 to Gly-117.	Phe-10 to Pro-19,	Gly-107 to Arg-112,	Thr-128 to Lys-135.			Ser-49 to Lys-58,	Glu-75 to Pro-91.	Gln-3 to Arg-10,
	4473	4474	4475	4476	4477		4478	4479	4480			4481			4482					5349		4483
	2 - 271	298 - 137	20 - 241	318 - 491	41 - 277		1 - 345	219 - 527	144 - 593			724 - 113			736 - 1140					1342 - 1788		165 - 878
	1786	1787	1788	1789	1790		1791	1792	1793	•		1794			1795					2662		1796
	793001	710355	934207	974047	808596		870150	870147	870152			933720			894863					946914		865399
	HTTAA94	HTTAA39	HTLIP06	HTLID06	HTLHV59		HTLHU81	HTLHU63	HTT.HS69			HTLHS05			HTLHK57							HTLHJ51

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and L0759: 1.		AR061: 1, AR089: 1 H0618: 1 and L0758: 1.	H0618: 1 and L0779: 1.	L0769: 2 and H0618: 1.	L0779: 3, L0758: 3, H0618: 1 and L0600: 1.	L0439: 3, L0753: 3, H0618: 1, L0741: 1,	H0618: 1 and L0758:	L0794: 2, H0618: 1 and L0768: 1.	L0439; 3 and H0253;	H0253: 1 and L0767: 1.	AR089: 33, AR061: 18 L0748: 2 and H0253: 1.	H0253: 1
	Pro-87 to Cys-92, Ser-144 to Pro-158.	Glu-1 to Glu-6.		Ser-25 to Asn-32, His-40 to Glu-45.	Arg-14 to Gly-29.	Ser-1 to Lys-12, Met-22 to Gly-29,	Glu-35 to Ile-51.	Glu-1 to His-15, Gly-21 to Cys-26, Thr-34 to Pro-42,	TOTAL OF CHARLES	Val-25 to Ala-31.	Ala-1 to Ala-35.	Gly-1 to Arg-13, Phe-19 to Arg-33.
		4484	4485	4486	4487	4488	4489	4490	4491	4492	4493	4494
		1 - 375	243 - 566	1 - 483	657 - 950	1 - 393	182 - 388	3 - 350	3 - 305	3-416	90 - 422	1 - 429
		1797	1798	1799	1800	1801	1802	1803	1804	1805	1806	1807
		945862	870172	963458	928245	782194	958304	870228	932882	671151	772363	573400
·		нтгнв93	HTLHA63	HTLGS10	HTLGR32	HTLGP84	HTLGK08	HTLGC43	HTLEQ92	HTLEP21	HTLEN77	HTLEM92

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	H0253: 1 and L0439:	L0748: 2 and H0253:	H0253: 1	H0253: 1, L0761: 1,	047. 1 and 20000. 1.	L0758: 3 and H0253:	H0253: 1	H0253: 1 and L0439:				H0253: 1	H0253: 1			H0253: 1 and L0768:		H0253: 1	H0253: 1	H0253: 1	AR061: 2, AR089: 1	L0752: 3, L0747: 2,	H0294: 1, H0253: 1,
Glu-28 to Val-34, Trp-58 to Ser-64.	, 06, 1 17.	Thr-6 to Ser-11. L	Ser-5 to Arg-17.	His-1 to Cys-8, His-1 to Cys-8, H		Glu-63 to Ala-68, L Glv-84 to Tvr-102.			Leu-22 to Asn-36, 1.	Asn-57 to Ser-68,	Pro-82 to Trp-107.	Asp-72 to Leu-78.		Pro-28 to Arg-34,	Asn-39 to Asn-47.	Arg-50 to Trp-58.	1.	Ala-14 to Asn-22.	1	H	IV	<u> </u>)出
5350	4495	4496	4497	4498		4499	4500	4501				4502	4503			4504		4505	4506	4507	4508		
360 - 599	2 - 355	138 - 317	3 - 296	197 - 601		3 - 308	1 - 132	2 - 448				1 - 285	23 - 199			152 - 382		3 - 143	6-218	50 - 250	1 - 282		
2663	1808	1809	1810	1811		1812	1813	1814				1815	1816			1817		1818	1819	1820	1821		
792812	384492	751842	778180	961353		913669	715439	868533	•			572853	578921			921045		413333	530039	870290	751985		
	HTLEL16	HTLEG67	HTLDZ81	HTLDW27		HTLD001	HTLDG43	HTLDB18				HTLCZ79	HTLCX66			HTLC002		HTLCG65	HTLCG59	HTLCA03	HTLBH67		

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					ter						
					6p25-pter						
H0046: 1, H0040: 1, H0063: 1, H0494: 1, S0352: 1, L0769: 1, L0766: 1, L0804: 1, L0805: 1, L0791: 1, H0521: 1, L0779: 1,	L0758: 1. L0758: 2 and H0253: 1.	H0253: 1, L0745: 1 and L0750: 1.	L0439: 3, L0438: 2, H0253: 1 and L0769: 1.	H0253: 1	H0253: 1	H0253: 1	H0253: 1 and L0439: 1.	H0253: 1 and L0747:	AR089: 1, AR061: 0 L0439: 2, L0021: 1, H0372: 1. L0769: 1.	L0649: 1, L0748: 1, L0485: 1, L0604: 1 and L0361: 1.	H0616: 1
:		His-1 to Trp-11, Lys-13 to Ser-27, Glu-33 to Ser-38.		Phe-2 to Arg-12.		Ala-1 to Trp-18.	Gln-32 to Leu-37, Gln-65 to Val-70, Thr-73 to Pro-79	Gly-1 to Thr-9.	Asp-28 to Leu-35, Asp-52 to Cys-57.		Ser-37 to Ser-43.
	4509	4510	4511	4512	4513	4514	4515	4516	4517		4518
	259 - 408	3 - 590	133 - 492	1 - 228	28 - 165	74 - 226	3 - 320	133 - 426	1 - 363		311 - 496
	1822	1823	1824	1825	1826	1827	1828	1829	1830		1831
	954111	766270	986069	870300	683247	575343	732480	879168	920507		972746
	HTLBC07	HTLBB72	HTLAI30	HTLAF33	HTLAC61	HTLAC39	HTLAB55	HTLAB29	HTFBE02		HTEQS95

H0616: 1		H0616: 1 and L0794:	AR061: 4, AR089: 1	L0758: 2 and H0616:	1.	L0748: 2, H0616: 1	and L0747: 1.		L0758: 3 and H0616:	ï	H0616: 1, L0519: 1,	L0748: 1 and L0779: 1.	AR061: 4, AR089: 1	L0758: 7, L0768: 2,	H0616: 1 and L0151: 1.		H0616: 1 and L0779:	1.	H0616: 1 and L0774:	H0616: 1 and L0779:		L0758: 3, H0616: 1,	L0794: 1, L0791: 1 and	75666 1.	H0616: 1 and L0755: 1.
Pro-45 to Pro-50,	Arg-64 to Ser-77, IIe-88 to Ala-101.	Pro-71 to Cys-82.	Met-12 to Met-24,	Pro-46 to Tyr-52,	Arg-92 to Lys-97.	Val-48 to Gly-54,	Asp-63 to Arg-74,	Gly-87 to Leu-92.	Ala-1 to Met-6,	Gly-9 to Ser-15.	Leu-47 to Thr-59,	Pro-73 to Pro-87.	Tyr-1 to Lys-8,	Phe-19 to Ser-24,	Thr-28 to Ser-34,	Pro-54 to Trp-70.			Lys-22 to Asp-27.	Leu-80 to Lys-86.		Asp-16 to Arg-23,	Leu-40 to Asp-47.	0, 1, 1	Glu-1 to Ser-10.
4519		4520	4521			4522			4523		4524		4525				4526		4527	4528		4529		0637	4530
86 - 388		129 - 596	3 - 293			147 - 437			263 - 412		614 - 931		839 - 78				159 - 392		1 - 318	18 - 296	,	3 - 191		122 200	133 - 390
1832		1833	1834			1835			1836		1837		1838				1839		1840	1841	9	1842		1042	1843
973426		870516	908528			958291			870559		870549		948475				948845		836721	870581	00000	82/0288		100000	955294
HTEQS90		нтеор03	HTEQN83			HTEQB08			HTEPY28		HTEPV63		HTEPE35				HTEOY82		HTE0083	HTEOE28	T T T T T T T T T T T T T T T T T T T	HIENY44		אסייות אסידיני	HIENVOO

HTFNS74	773075	1844	3 - 379	4531	Arg-30 to Arg-37	I 0755.2 and H0616. 17n133	17n133	113721
					Asn-40 to Glu-46,	1.		247200,
					Leu-56 to Arg-64,			600059,
					Ala-85 to Arg-102.			601545
HTENR26	870595	1845	15 - 146	4532	Thr-12 to Ile-17.	H0616: 1 and L0768: 1.		•
HTENQ92	206062	1846	54 - 494	4533	Ala-6 to Trp-19,	L0731: 3, H0616: 1		
					Leu-34 to Gln-39,	and L0750: 1.		
					Asp-63 to Arg-76,			
					Thr-94 to Gly-105,			
					Asp-108 to Phe-113,			
					Lys-122 to Phe-128,			
		•			Asn-131 to Glu-136,			
					Arg-142 to Gly-147.			
HTENP08	958382	1847	28 - 447	4534	Tyr-2 to His-7.	H0616: 1 and L0794:		
						1.		
HTENL95	795314	1848	149 - 322	4535	Pro-43 to Ile-51.	L0748: 2, H0616: 1,		
						L0439: 1 and L0740: 1.		
HTENL73	974363	1849	109 - 426	4536	Pro-29 to Thr-34,	H0616: 1		
				•	Cys-42 to Ser-47,			
		•			Gln-52 to His-58,			
	-				Pro-68 to Cys-80.			
HTENA08	958380	1850	60 - 206	4537		H0616: 1 and L0758: 1.		
HTEMY05	880592	1851	1 - 363	4538	Cys-18 to Lys-43,	H0616: 1 and L0362:		
					Ser-45 to Leu-52,	1.		
					Ser-63 to Ser-68,			
					Lys-75 to Arg-80, His-113 to Lys-121			
HTEMV66	813038	1852	1-318	4539	Ser-38 to Pro-45.	AR061: 5, AR089: 1		
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H0616: 1 and L0758:	AR061: 7, AR089: 5	H0616: 1				L0758: 4 and H0616:	•	H0616: 1 and L0758:	•	H0616: 1 and L0439: 1.	H0616: 1 and L0747:	H0616: 1, L0779: 1	and L0758: 1.	H0616: 1 and L0758:	H0616: 1 and L0748:	H0616: 1 and I 0504:	110010: 1 alla E0294.								H0616: 1, L0764: 1,
		Lys-24 to Ser-30,	Pro-44 to Asn-53,	Glu-104 to Asp-112,	Leu-152 to Ser-157.	Glu-3 to Cys-9,	Gln-32 to Asp-45.				His-15 to Arg-22.	Arg-24 to Pro-30.		His-44 to Phe-49, Pro-53 to Pro-58.		Dr. 28 to His 24	T-:- £1 t- A £0	Lys-51 to Arg-59,	The 02 to Cla 100	1 mr-92 to Gm-100,	Ala-106 to Gln-118,	Pro-123 to Leu-133,	Ala-137 to Glu-147,	Arg-185 to Leu-190.	Thr-15 to Lys-28,
	4540					4541		4542		4543	4544	4545		4546	4547	4548) †								4549
	454 - 963					21 - 197		77 - 361		51 - 137	58 - 378	283 - 573		198 - 374	2 - 250	22 641	1+0-05				-				102 - 296
	1853					1854		1855		1856	1857	1858		1859	.1860	1961	1001								1862
	944419					915308		964769		775543	938396	870613		849214	787549	806421	000761								952274
	HTEMU66					HTEMS01		HTEMO58		HTEMN80	HTEMM91	HTEMI51		HTEMB57	HTELY90	UTEI 1/20	111111427								HTELP07

																		300000,	300066,	300077,	300310,	301220,	302350,	304050,	304110,	306100,
										*****								Xp22								
L0779: 1 and L0758: 1.	L0758: 2 and H0616:			L0794: 2, H0616: 1	and L0758: 1.	H0038: 1 and L0439:	1.	L0766: 2, H0038: 1,	L0637: 1, L0750: 1 and	L0590: 1.	AR051: 29, AR050:	21, AR054: 21, AR089:	11, AR061: 11	H0038: 1	H0038: 1 and L0756: 1.	L0758: 2 and H0038:	H0038: 1 and L0743: 1.	H0038: 1 and L0595:								
Gly-47 to Thr-54.	Pro-24 to Asn-37,	Asp-43 to Thr-49,	Leu-63 to Gln-72.	Ala-48 to Lys-57,	Ser-75 to Phe-84.	His-1 to Lys-7.		Pro-43 to Asn-48.							Ala-5 to Arg-15.	Pro-19 to Phe-28.	Ser-5 to Cys-16, Glu-20 to Ile-25.									
	4550			4551		4552		4553			4554				4555	4556	4557	4558								
	63 - 329			185 - 451		43 - 657		68 - 286			83 - 391				105 - 428	92 - 241	.282 - 401	1 - 279				•				
	1863			1864		1865		1866			1867		-		1868	1869	1870	1871								
	954982			918699		754010		812862			942526				772397	793039	717850	653252								
	HTELM71			HTELA02		HTEKU62		HTEKI62			HTEKH17				HTEKD77	HTEJV94	HTEJO46	HTEJN12								

309530, 309585, 312040	107910,	107910,	114240,	134797,	134797,	134797,	151670,	600839,	601780,	60209				•		.,										
	15q21.1-q21.2 107910,									,																
	L0748: 2 and H0038:	.									H0038: 1 and L0748:	-					L0779: 3, L0758: 2 and	H0038: 1.	H0038: 1 and L0366:	1.	L0758: 4 and H0038:	1.	H0038: 1 and L0754:	ļ.		
													Arg-1 to Arg-6,	Pro-17 to Ala-23,	Gly-33 to Gln-40,	Arg-45 to Arg-73.	Thr-1 to Glu-7,	Cys-35 to Gly-51.	Cys-33 to Asn-38.		Pro-31 to Arg-37,	Phe-39 to Ala-55.	Gly-1 to Glu-9,	He-12 to Lys-30,	Cys-34 to Lys-39,	Glu-55 to Gln-62,
	4559					_					4560		5351				4561		4562		4563		4564			
	23 - 301										601 - 380		1 - 330			•	79 - 264		383 - 135		3 - 299		178 - 417			
	1872										1873		2664				1874		1875		1876		1877			
	696784										490772		870649				953801		887112		820660		684711			
	HTEJL30										HTEJC70					•	HTEJB07		HTEIS34		HTEIS25		HTEIN26			

			-																						602025	
																									20q13.12	
	H0038: 1, L0768: 1, L0438: 1 and L0779: 1.	H0038: 1			H0038: 1	H0038: 1 and L0779:	1.	H0038: 1	H0038: 1	L0748: 2 and H0038:	H0038: 1, L0740: 1	and L0754: 1.	H0038: 1, L0779: 1	and L0758: 1.	L0758: 3, L0151: 2,	H0038: 1 and L0779: 1.	L0163: 1 and H0038:	1.	L0758: 3, L0776: 2,	L0779: 2 and H0038: 1.					L0439: 2 and H0038:	η.
Val-66 to Lys-72.		Asp-19 to Ser-25.	Ile-1 to Phe-9,	Gly-73 to Gly-82.	Gln-1 to Leu-6.	His-1 to Asp-9,	Lys-37 to Glu-45.	Gln-11 to Cys-18.	Pro-2 to Thr-13.	Glu-1 to Ser-18.	Gly-14 to Val-21,	Thr-25 to Leu-32.	Gla-9 to Ala-21,	Thr-24 to Thr-29.	Lys-30 to Leu-39,	Glu-42 to Ser-53.	Gly-10 to Arg-19.		Lys-1 to Arg-27,	Thr-42 to Met-57,	Gln-89 to Ala-95,	Asp-113 to Ser-119,	Thr-128 to Thr-156,	Phe-179 to Ser-187.	Ala-1 to Lys-10, Pro-29 to Ser-36	110-27 10 301-30,
	4565	4566	5352		4567	4568		4569	4570	4571	4572		4573		4574		4575		4576						4577	
	69 - 395	379 - 179	3 - 281		44 - 151	39 - 296		19 - 264	35 - 235	1 - 225	279 - 446		59 - 361		15 - 233		147 - 254		64 - 747						173 - 388	
	1878	1879	2665		1880	1881		1882	1883	1884	1885		1886		1887		1888		1889						1890	
	708304	491030	870667		392868	996688		870671	921926	734983	734976		967439		664436		964956		920628			-			931017	1
	HTEIL36	HTEIJ58			HTEID15	HTEIB38		HTEIB37	HTEIB03	HTEIA57	HTEHX57		HTEHV11		HTEHS17		HTEHJ11		HTEGW02					П	HTEGUSS	

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																	· · · · · ·			,	
	H0038: 1 and L0766:	AR089: 3, AR061: 2 L0439: 2 and H0038: 1.	H0038: 1 and L0755:	H0038: 1 and L0749:	H0038: 1	H0038: 1 and L0756:	AR050: 9, AR051: 3,	AR054: 1	H0038: 1, L0750: 1	and L0755: 1.	H0038: 1, L0766: 1,	L0789: 1 and L0749: 1.			L0591: 2, H0038: 1,	L0381: 1, L0779: 1 and	L0758: 1.		H0038: 1, L0744: 1	and L0756: 1.	H0038: 1
Gly-46 to Ser-58, Ile-62 to Cys-67.	Glu-13 to Ser-20, Pro-33 to Phe-38, Ser-41 to Lys-49.		Asp-26 to Trp-35.		Gly-5 to Gly-12.						Leu-25 to Asp-35,	Ser-41 to Tyr-47,	Trp-72 to Pro-77,	Lys-106 to Arg-112.	Pro-28 to Tyr-38,	Thr-40 to Lys-48,	Val-61 to Thr-68,	Glu-74 to Gln-82.	Thr-6 to Gln-12.		Ile-1 to Ala-7,
	4578	4579	4580	4581	4582	4583	4584				4585				4586				4587		4588
	130 - 600	3 - 452	272 - 457	74 - 325	3 - 221	2 - 97	3 - 581				3 - 353				133 - 408				150 - 464		2 - 256
	1891	1892	1893	1894	1895	1896	1897				1898				1899				1900		1901
	932987	765901	732630	709420	545137	866069	887616				026999				719280				685383		530196
	HTEGS24	HTEGJ74	HTEGJ56	HTEGI38	HTEGH60	HTEGC30	HTEFX90				HTEFU18				HTEFO46				HTEFO28		HTEEU78

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			102770,	120280,	120280,	166600,	170995,	232400,	232400,	600309,	601414,	601691,	601691,	601691,	601691,	601718,	602094										
			1p21																	:							2q37.2
	H0038: 1	H0038: 1	H0038: 1 and L0758:							•								H0038: 1	H0038: 1, L0756: 1	and L0758: 1.	H0038: 1, L0794: 1	nd L0758: 1.	L0748: 2 and H0038:	H0038-1	H0038: 1	H0038: 1	L0601: 2 and H0038:
Arg-26 to Gly-38.		Glu-15 to Ser-20.		Leu-42 to Glu-62, 1	Ala-75 to Thr-84.													Pro-40 to Leu-50, Ser-64 to Gln-74.	Thr-20 to His-29,			В	Ser-11 to Arg-19.	1			Thr-48 to Ser-53,
	4589	4590	4591															4592	4593		4594		4595	4506	4597	4598	4599
	2 - 115	99 - 227	2 - 280															76 - 303	206 - 373	ļ	123 - 341		151 - 288	123 - 260	114 - 344	1 - 204	86-511
	1902	1903	1904								•			•				1905	1906		1907		1908	1900	1910	1911	1912
	707717	575476	530203															530200	675071		677513		780161	530201	927850	925353	881958
	HTEEU35	HTEEU27	HTEEU18							-								HTEEU17	HTEET22		HTEEF25		HTEEB82	HTEDX30	\top	Т	1

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		H0038: 1	H0038: 1 and L0749:	H0038: 1 and L0756:	H0038: 1	H0038: 1 and L0779:	H0038: 1	H0038: 1 and L0740:	-	H0038: 1	H0038: 1	H0038: 1	H0038: 1	AR061: 3, AR089: 1	H0038: 1	H0038: 1	AR061: 6, AR089: 4	H0038: 1	H0038: 1	H0038: 1	H0038: 1		AR050: 42, AR054:
Gly-63 to Arg-68,	Gly-77 to Trp-85, Gln-99 to Gly-112,	Arg-131 to Arg-142. Glv-17 to Glu-29.	Ser-47 to Phe-57.	Gly-22 to Arg-28.										Phe-1 to Pro-7,	9.	Gly-2 to Ile-13.		Gly-103 to Arg-108.	Asn-1 to Gly-17.	Pro-67 to Gly-75.	Ile-1 to Lys-9,	Pro-88 to Lys-100.	Arg-43 to Thr-50.
		4600	4601	4602	4603	4604	.4605	4606		4607	4608	4609	4610	4611		4612	4613		4614	4615	4616		4617
		1 - 213	86 - 322	2 - 253	147 - 509	625 - 170	60 - 197	137 - 283		3 - 143	29 - 322	233 - 409	92 - 229	3-311		3 - 170	18 - 353		1 - 249	80 - 385	2 - 361		162 - 371
		1913	1914	1915	1916	1917	1918	1919		1920	1921	1922	1923	1924		1925	1926		1927	1928	1929		1930
		530448	785818	727362	934047	960645	767024	766343		522827	508086	522969	961028	909162		522940	615250		522936	522938	869427		890715
		HTEDW59		HTEDU53	HTEDS40	HTEDS06	HTED075	HTEDK72		HTEDJ92	HTEDJ63	HTEDI09	HTEDI01	. НТЕДН90		HTEDH76	HTEDH42		HTEDH30	HTEDH17	HTEDH06		HTEDG75

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		113900,	126340,	126391,	130410,	134790,	138570,	160900,	173850,	258501,	600040,	602225,	602225												
		19q13.3																							
35, AR051: 33 H0038: 1	H0038: 1	H0038: 1												H0038: 1	H0038: 1			AR061: 8, AR089: 3	L0758: 2 and H0038:	1.		H0038: 1	H0038: 1		H0038: 1 and L0750: 1.
	Asn-1 to Arg-8, Leu-18 to Asp-23, Glu-84 to His-89.	Leu-22 to Arg-34.												Ile-1 to Gln-11.	Glu-1 to Gln-7,	Arg-16 to Asp-30,	Pro-35 to Asn-43.	Pro-2 to Trp-7,	His-28 to Gly-35,	Pro-37 to Gly-56,	Gly-68 to Lys-75.	Gly-36 to Gly-52.	Ala-22 to Gly-30,	Asn-36 to Ala-43.	Ser-30 to Arg-36.
	4618	4619												4620	4621			4622				4623	4624		4625
	1 - 396	1 - 174												2 - 277	1 - 369			1 - 303				26 - 196	1 - 369		85 - 471
	1931	1932		,										1933	1934			1935				1936	1937		1938
	519947	614726												522977	742368			908406				522997	523002		789732
	HTEDG26	HTEDF96 614726			-						•			HTEDF70	HTEDF60			HTEDF22		-		HTECE66	HTECE62		HTECE61

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					126650,	126650,	154276,	173360,	173360,	602136,	602136,	602136,	602447								<u></u>						
					7q11-q22																						
H0038: 1	H0038: 1	H0038: 1	H0038: 1		H0038: 1									H0038: 1	H0038: 1		H0038: 1	H0038: 1	H0038: 1		•	H0038: 1	H0038: 1		H0038: 1		AR089: 39, AR061: 19
Leu-30 to Arg-40.	Ser-37 to Gly-49.		Ile-1 to Ser-8,	Pro-13 to Ser-19, Gly-31 to Ile-41.	Val-28 to Cys-55,	Arg-71 to Cys-90,	Pro-102 to Pro-107.								Ala-28 to Ser-43,	Ala-57 to Tyr-64.		Ala-10 to Thr-18.	Pro-23 to Val-32,	Ala-54 to Ala-60,	Thr-68 to Gly-73.	Glu-39 to Cys-57.	Phe-1 to Gly-10,	Leu-32 to Cys-39.	Ser-21 to Ser-29,	Ala-31 to Thr-37.	Arg-1 to Pro-6.
4626	4627	4628	4629		4630									4631	4632		4633	4634	4635			4636	4637		4638		4639
85 - 282	63 - 401	33 - 203	2 - 154		1 - 330									246 - 356	2 - 211		144 - 341	3 - 119	3 - 251			3 - 173	20 - 142		74 - 202		3 - 365
1939	1940	1941	1942		1943									1944	1945		1946	1947	1948			1949	1950		1951		1952
870723	650885	508104	960428		527210									527214	527203		533795	527209	523029			508142	508124		508144		629829
HTECE51		HTECE31	HTECE08		HTECD94									HTECD88	HTECD70		HTECD65	HTECD56	HTECD15			HTECC71	HTECC45		HTECC26		HTECC09

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		,										
H0038: 1	H0038: 1	H0038: 1	H0038: 1	L0754: 2 and H0038:	H0038: 1	H0038: 1	H0038: 1	H0038: 1 and L0748:	H0038: 1 and L0758: 1.	L0758: 3, L0666: 2, L0021: 1, H0038: 1 and L0665: 1.	L0439: 2, L0717: 1, H0038: 1, L0769: 1, L0772: 1, L0800: 1, L0666: 1, L0758: 1 and L0601: 1.	L0439: 4 and H0038: 1.
		Ile-4 to Lys-23, Arg-87 to Cys-103.	Gly-9 to Leu-17, Arg-38 to Glu-44.		Gly-42 to Gln-53, Leu-67 to Glu-76.	Glu-16 to Lys-21, Met-25 to Tyr-32.	Pro-7 to Cys-13, Glu-41 to Trp-46, Ser-60 to Gln-65.		Glu-7 to Gly-14.	Ala-7 to Val-13, Pro-15 to Val-21.		Ser-8 to Asn-19.
	. 4640	4641	4642	4643	4644	4645	4646	4647	4648	4649	4650	4651
	2 - 151	56 - 439	105 - 236	559 - 744	3 - 266	78 - 230	110 - 367	123 - 299	23 - 346	134 - 394	151 - 462	371 - 144
	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
	960439	508135	508132	728811	715704	503275	578544	921321	870732	960792	679394	503295
	· HTECC08	HTECA44	HTECA39	HTEBP54	HTEBO43	HTEBM87	HTEBL53	HTEBJ02	нтевн09	HTEAX06	HTEAV22	HTEAU39

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				,										·									109270,	109270, 109270,
																							17q21	•
L0758: 5, H0038: 1 and L0768: 1.	H0038: 1 and L0758: 1.	H0038: 1	L0740: 3, L0731: 3,	L0748: 2, L0757: 2 and	H0038: 1.	H0038: 1		H0038: 1	L0748: 2 and H0038:	1.	H0038: 1 and L0766:	1.	H0038: 1 and L0758:	1.	L0758: 2 and H0038:	<u> </u>		H0546: 1, L0598: 1	and L0759: 1.	H0546: 1 and L0757:	<u>.</u>	H0546: 1 and L0756: 1.	H0546: 1	
		Ser-19 to Trp-27.	Asn-14 to Gln-20,	Arg-28 to Glu-40.		Phe-10 to Ser-16,	Ser-24 to Gly-50.		Ala-15 to Leu-24,	Pro-32 to Cys-41.			Ser-17 to Cys-23,	Pro-25 to Ala-32.	Arg-20 to Tyr-28,	Phe-31 to Arg-38,	Asp-44 to Arg-51.	Arg-17 to Gly-22.		Ala-26 to Pro-31.		Phe-1 to Asn-9.	Leu-15 to Phe-35,	Pro-52 to Ser-58.
4652	4653	4654	4655			4656		4657	4658		4659		4660		4661			4662		4663		4664	4665	
45 - 311	79 - 324	373 - 230	3 - 398			216 - 434		145 - 336	146 - 268		17 - 172	•	7 - 324		106 - 348	•		87 - 218		3 - 380		12 - 152	15 - 404	
1965	9961	1967	1968			1969		1970	1971		1972		1973		1974			1975		1976		1977	1978	
667184	921323	503298	732562			503533		503546	503623		960469		724751		925522			108261		867537		412991	953051	
HTEAT17	HTEAS02	HTEAR93	HTEAQ55			HTEAJ96		HTEAH75	HTEAG47		HTEAG08		HTEAB50		HTEAA04			HSWBY36		HSWBT69		HSWBE29	HSWAS65	

70,	.70,	.05,	.05,	.00,	65,	. 99	99	67,	67,	(69,	80,	75,	10,	90,	.05,	.00	50,	20,	·00		20,	50,	19,	19,	63,	44		
109270,	1092	113705,	1137	1442	1480	1480	1480	1480	1480	1480	1480	1542	1686	1711	1767	1858	2003	2218	2322	2490	2529	2532	6001	6001	6013	6018		
	•																											
								•	-									-									L0744: 3, L0021: 1,	L0657: 1.
																											Lys-1 to Ser-8.	
																			-81					-			4666	
																											200 - 418	
																					-			•			6261	
																											666302	
																											HSWAS18	

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107741,	113900,	122720,	122720,	126340,	126391,	160900,	164731,	173850,	207750,	248600,	258501			120110.	121014,	142470,	156225,	164200,	164200,	601316,	601410,	601757						
19q13.2	·													6a22.1-a22.3	•													
H0546: 1												H0546: 1	H0383: 1 and L0589:	S0174: 1 and L0755: 1. 6q22.1-q22.3									S0044: 1 and L0748: 1.	L0749: 4, L0748: 2 and	S0044: 1.	L0754: 2 and S0044: 1.		L0731: 2, S0044: 1 and
Asn-19 to Asp-30.														Pro-20 to Ser-27.									Lys-9 to Pro-14.			Cys-13 to Pro-26,	Pro-34 to Val-40.	Cys-1 to Asn-16,
4667			•									4668	4669	4670									4671	4672		4673		4674
61 - 222						•					_	194 - 418	71 - 427	155 - 349									141 - 533	168 - 452		166 - 291		17 - 397
1980												1981	1982	1983									1984	1985		1986		1987
471236												958269	936026	727294									839559	924978		785710		789170
HSWAR63 471236												HSWAQ31	HPWTA06	HPWSA52										HPWDF03		HPWDE86		HPWCJ90

												-																
L0749: 1.			S0044: 1				S0044: 1 and L0608: 1	S0044: 1 and L0581: 1.			S0044: 1 and L0752: 1.		S0044: 1 and L0439: 1.	S0044: 1	L0748: 2 and S0044: 1.			S0044: 1				S0044: 1	S0013: 1 and L0756: 1.	L0748: 2, S0013: 1 and	.0743: 1.	S0013: 1 and L0740: 1.	S0013: 1	S0013: 1 and L0746: 1.
Thr-20 to Asp-44,	Ser-47 to Asn-54,	Phe-66 to Arg-93.	Ser-25 to Glu-33,	Ser-58 to His-68.	Ser-25 to Glu-33,	Ser-58 to His-68.	Asn-32 to Thr-40.	Arg-1 to Ile-6,	Pro-9 to Met-16,	Gly-32 to Arg-37.	Ser-21 to Pro-29,	Leu-42 to Ser-52.	Gln-1 to Gly-11.		Pro-1 to Pro-9,	Ser-36 to Gly-43,	Leu-48 to Gln-62.	Pro-13 to Arg-23,	Pro-41 to Trp-53,	Pro-56 to Lys-65.		Arg-28 to Pro-42.		Asp-9 to Phe-18,	Pro-44 to Trp-52.	His-42 to Lys-52.		
			4675		5353		4676	4677			4678		4679	4680	4681			4682			5354	4683	4684	4685		4686	4687	4688
			461 - 727		585 - 319		36 - 164	251 - 520			73 - 258		73 - 219	72 - 215	2 - 250			201 - 1			27 - 275	591 - 61	2 - 178	351 - 614		2 - 637	18 - 155	88 - 261
			1988		5666		1989	1990			1991		1992	1993	1994			1995			2667	1996	1997	1998		1999	2000	2001
			638155		812707		707514	720563			676323		535157	575271	932627			468246			867315	819869	829301	848632		773298	526124	961017
			HPWCG85				HPWBF35	HPWBE47			HPWAT23		HPWAJ85	HPWAJ39	HPWAI05			HPWAH19				HPWAG31	HPVAH71	HPVAH41		HPVAC74	HPVAB16	HPVAB01

H0212: 1, L0750: 1 and L0777: 1	L0605: 2, H0212: 1 and L0748: 1.	L0777: 4, H0212: 1, L0809: 1, L0664: 1 and	L0750: 1. H0032: 1 and L0748:	L0731: 2 and H0032:	H0032: 1, L0761: 1 and L0758: 1.	H0032: 1	H0032: 1 and L0756:	H0032: 1	H0032: 1 and L0439: 1.	H0032: 1 and L0748:	H0032: 1	H0032: 1				H0032: 1	
Gly-27 to Glu-33, Cvs-46 to Lvs-53.			Ser-1 to Thr-9.			Lys-11 to Ser-19, Lys-72 to Gln-78.	Lys-4 to Val-12, Ser-23 to Ser-39.		Glu-41 to Ser-46.	lle-1 to Arg-6, Val-27 to Gly-32.	Arg-6 to Leu-15.	Gln-14 to Tyr-19.	Arg-22 to Asp-27,	Gln-36 to Glu-42,	Leu-46 to Glu-56.	Cys-73 to Lys-82.	
4689	4690	4691	4692	4693	4694	4695	4696	4697	4698	4699	4700	4701	5355			4702	5356
391 - 549	91 - 351	81 - 470	296 - 472	37 - 177	2 - 166	45 - 278	3 - 248	2 - 298	175 - 462	2 - 115	99 - 236	142 - 315	205 - 11			200 - 454	484 - 320
2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2668			2015	5669
753933	728812	667652	320393	780264	925420	973740	766311	764710	719340	967762	226623	682416	616213			467480	486123
HPRTJ65	HPRT154	HPRTI16	HPRCV66	HPRCT83	HPRCN03	HPRCM12	HPRCL72	HPRCI73	HPRCG46	HPRCD11	HPRCC22	HPRCA02				HPRBN23	

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	19p13.3-p13.2108725, 120700, 13171, 136836, 143890, 147141, 147670, 147670, 151440, 151440, 164953, 188070, 231670, 600276, 601238, 601238, 601238, 601243, 602216,				
_			2:	and	
	H0032: 1 and L0731: 1.	H0032: 1 and L0748:	L0439: 3 and H0032: 1.	L0756: 3, L0747: 2, L0749: 2, H0032: 1 and L0748: 1.	
	Met-1 to Asn-9.	Ser-21 to Gln-27.		Glu-18 to Val-30.	
5357	4703	4704	4705	4706	5358
106 - 282	93 - 227	183 - 344	1 - 384	338 - 210	373 - 543
2670	2016	2017	2018	2019	2671
867409	695116	781636	781637	503140	503152
	HPRBI87	HPRBH80	HPRAV80	HPRAN56	

				,												
H0032: 1	H0032: 1	H0032: 1 and L0749: 1.	H0032: 1			H0032: 1	S0004: 1	H0111: 1 and L0766: 1.	H0111: 1 and L0750: 1.	L0754: 2, H0644: 1, L0747: 1 and L0750: 1.	H0644: 1 and L0755: 1.	H0644: 1 and L0777: 1.	H0644: 1 and L0748: 1.	L0748: 4 and H0644: 1.	H0644: 1 and L0748: 1.	H0644: 1 and L0462: 1.
	Ser-19 to Cys-35.		Gly-7 to Thr-27, Pro-60 to Gln-66.	Ile-1 to Ser-8, Ser-103 to Pro-108.	Arg-9 to Tyr-14.	Thr-13 to Met-23.	Ala-1 to Gln-7.	Lys-13 to Lys-18.		Ser-14 to Arg-19, Glu-43 to Ser-54.		Gln-48 to Asp-65.	Asn-8 to Asp-28.	Lys-15 to Leu-25, Met-29 to Leu-43.	His-4 to Arg-20.	Ser-42 to Ser-52.
4707	4708	4709	4710	5359	5360	4711	4712	4713	4714	4715	4716	4717	4718	4719	4720	4721
300 - 196	3 - 197	267 - 584	281 - 84	3 - 365	1 - 57	2 - 232	2 - 406	192 - 368	30 - 206	558 - 746	105 - 299	3 - 248	87 - 257	242 - 487	2 - 259	277 - 516
2020	2021	2022	2023	2672	2673	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
724753	766496	764757	484691	939849	939850	784594	789290	796839	707476	928283	957945	933895	930874	969483	600856	965636
HPRAN50	HPRAJ75	HPRAG73	HPRAG45			HPRAF86	HPOAB37	HPMSH94	HPMSB35	HPMMK05 928283	HPMMB08	HPMKP06	HPMKC05	HPMJT12	HPMJN08	HPMJK11

H0644: 1 and L0700:	H0644: 1 and L0774:	H0644: 1, L0606: 1 and L0749: 1.	L0745: 4 and H0644:	H0031: 1			H0031: 1 and L0756:	H0031: 1 and L0756: 1.	L0748: 6, H0031: 1,	L0747: 1, L0756: 1 and L0596: 1.	H0031: 1	H0031: 1 and L0748:	1.	L0747: 2 and H0031:	H0031: 1	L0770: 2, L0779: 2, H0031: 1, L0766: 1,
	Gln-7 to Gly-18, Asp-21 to Met-28.	Tyr-39 to Arg-56.		Glu-36 to Ala-43, Pro-45 to Lys-57.	Leu-20 to Arg-26,	Ala-38 to Thr-43, Trp-90 to Ala-96.	Pro-18 to Glu-24.		Thr-1 to Ser-6,	Glu-49 to Phe-63.	Lys-28 to Ser-33.	Gln-6 to Gly-11,	Arg-50 to Thr-63.			Pro-41 to Ala-63, Gly-69 to Gly-81.
4722	4723	4724	4725	4726	5361		4727	4728	4729	•	4730	4731		4732	4733	4734
293 - 436	61 - 381	169 - 2	1 - 327	346 - 158	63 - 350		178 - 378	267 - 440	865 - 1128		85 - 195	177 - 380		6 - 161	203 - 592	112 - 576
2035	2036	2037	2038	2039	2674		2040	2041	2042	:	2043	2044		2045	2046	2047
867615	29996	939682	965628	491004	881472		660374	463906	705460		662021	694518		690704	029298	920327
HPMJK03	HPMJI11	HPMJE06	HPMJA11	HPMGX92			HPMGR15	HPMGO88	HPMGM39		· HPMGJ16	HPMGD63		HPMFX29	HPMFL73	HPMFC02

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L0776: 1 and L0758: 1.	H0031: 1 and L0747: 1.	L0604: 3 and H0031: 1.	L0794: 2 and H0031:	Ϊ,		L0794: 2, H0031: 1	and L0779: 1.		H0031: 1 and L0455:	 L0439: 2 and H0031:	•	L0748: 3, H0031: 1 and L0731: 1.	H0031: 1 and L0745:	H0031:1			H0031: 1 and L0748:	1.	H0031: 1	H0031: 1	H0031: 1 and L0740:
	Gly-4 to His-11, Val-61 to Gly-67.	Leu-21 to Val-36, Pro-38 to Gln-44.	Arg-1 to Phe-9,	Arg-69 to Gln-83,	Lys-85 to Leu-103,	Glv-1 to Gln-7.	Gly-21 to Val-26,	Arg-47 to Arg-55,	Lys-11 to 111a-11.	Lys-42 to Ile-50.			Ser-2 to Tyr-15.	Leu-7 to Leu-12,	Asn-14 to His-27,	Pro-30 to Lys-37.			Arg-27 to Thr-46.		Lys-1 to Lys-8.
	4735	4736	4737			4738			4739	4740		4741	4742	4743			4744	1	4745	4746	4747
	2 - 361	214 - 366	1 - 390			1 - 258			1-111	150-1		629 - 426	2 - 169	323 - 442			156 - 410		2 - 154	215 - 63	84 - 233
	2048	2049	2050			2051) }		2052	2053		2054	2055	2056			2057		2058	2059	2060
	867674	772503	880787			968350			954567	791407		772740	764752	503690	•		781518		572808	968695	783344
	HPMFB26	HPMEG77	HPMDQ89			HPMDP10			HPMDF06	HPMAM93		HPMAL77	HPMAL73	HPMAK71			HPMAJ83		HPMAI80	HPMAI10	HPMAH85

1.	H0031: 1	H0031: 1 and L0758: 1.	H0030: 1 and L0595: 1.		L0777: 2 and H0030:	H0030: 1 and L0754: 1.	H0030: 1 and L0758: 1.	L0747: 2 and H0030:	H0030: 1 and L0754: 1.	H0030: 1 and L0751: 1.	H0030: 1 and L0756: 1.	L0518: 2, H0030: 1 and L0740: 1.	H0030: 1, L0747: 1	410 LO / 50. 1.	H0030: 1 and L0748:
		Pro-3 to Gly-11, Ser-43 to Leu-55.	Glu-8 to His-17, Gln-19 to Gly-43,	Thr-62 to Ser-73, Pro-80 to Leu-85.	•	Pro-1 to Ala-12, Gly-33 to Gln-38.	Ile-36 to Gly-47.	Pro-16 to Ser-23.	Lys-6 to Asn-12.	Leu-30 to Cys-39.	Glu-4 to Arg-9, Thr-17 to Lys-23.	Lys-22 to Ser-39.	Ser-7 to Gly-15,	Thr-96 to Gly-101, Gly-109 to Arg-133.	His-23 to Asn-37.
	4748	4749	4750		4751	4752	4753	4754	4755	4756	4757	4758	4759		4760
	156 - 296	3 - 221	3 - 278		338 - 499	179 - 343	283 - 450	359 - 559	18 - 155	202 - 348	144 - 326	745 - 491	85 - 489		197 - 3
	2061	2062	2063		2064	2065	2066	2067	2068	2069	2070	2071	2072		2073
	867711	968723	679217		921331	731065	728517	712707	690962	787208	781854	975477	727885		715732
	HPMAH56	HPMAB10 968723	HPLBW22		HPLBW02	HPLBT54	HPLBT53	HPLBS41	нР.ГВQ96	HPLBO90	HPLBN79	HPLBB47	HPLAX14		HPLAV44

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1.	H0030: 1, L0517: 1, L0740: 1, L0754: 1, L0777: 1, L0755: 1 and L0758: 1.		L0783: 1, L0809: 1 and S0152: 1.	AR061: 4, AR089: 1 S0152: 1 and L0601: 1.	S0152: 1 and L0439: 1.	L0717: 1, S0152: 1 and L0756: 1.	L0435: 1, S0152: 1, L0439: 1 and L0747: 1.	S0152: 1 and L0745: 1.	S0152: 1	S0152: 1 and L0604: 1.	S0152: 1 and L0759: 1.	L0532: 1 and S0152: 1.	AR054: 38, AR051:	29, AR050: 28 S0152: 1	S0152: 1 and L0779: 1.	AR061: 6, AR089: 2	S0152: 1
	Ser-14 to Phe-20.	Leu-3 to Lys-8, Arg-27 to Ser-34, Leu-45 to Lys-55.	Gln-9 to Ala-15.			Lys-35 to Lys-42.	Glu-8 to Cys-16.	Pro-26 to Phe-35.							Asn-17 to Met-22.	Gln-1 to Cys-17,	Gln-20 to Lys-28, Pro-35 to Ser-44.
	4761	5362	4762	4763	4764	4765	4766	4767	4768	4769	4770	4771	4772		4773	4774	
	54 - 461	659 - 372	466 - 341	82 - 408	209 - 352	136 - 327	19 - 318	50 - 220	19 - 198	44 - 406	177 - 392	155 - 301	280 - 417		212 - 358	246 - 506	
	2074	2675	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085		2086	2087	
	68707	968711	963322	929723	928408	965894	298628	918315	974074	867759	922815	949149	889928		915056	951281	
	HPLAI10		HPJFA10	HPJEV95	HPJEU01	HPJET11	HPJES17	HPJEL02	HPJEG53	HPJDW93	HPJDT03	HPJDP54	HPJDF61		HPJDC01	HPJDA25	

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		· · · · · · · · · · · · · · · · · · ·																							$\frac{1}{2}$
	L0667: 1 and S0152: 1.	S0152: 1 and L0605: 1.	AR054: 34 S0152: 1	S0152: 1	S0152: 1	3				S0152: 1	AR051: 17, AR050: 9,	AR054: 8	S0152: 1	L0758: 3, L0779: 2 and	S0152: 1.	L0748: 2 and S0152: 1.	L0439: 2 and S0152: 1.	S0152: 1 and L0592: 1.	S0152: 1 and L0743: 1.	S0152: 1 and L0748: 1.	S0152: 1, L0740: 1 and 1.0750: 1	L0752: 7, L0780: 2,	L0586: 1 and S0152: 1.	S0152: 1	
		Thr-2 to Asn-8, Asn-49 to Ser-54.		Ser-33 to Lys-41.	Pro-10 to Ser-17,	Ser-19 to Arg-24,	Pro-43 to Glu-50,	Arg-56 to Phe-64,	Pro-74 to His-87.	Val-23 to Leu-31.		Thr-35 to Gly-45.		Glu-11 to His-16.			Arg-14 to Cys-22.		Phe-2 to Asp-8.			Tyr-10 to Leu-15,	Glu-32 to Gly-41.	His-15 to Gln-26, Ser-38 to Asn-46	JOI - JU W LYBIA-TU.
5363	4775	4776	4777	4778	4779					4780	4781			4782		4783	4784	4785	4786	4787	4788	4789		4790	
252 - 13	1 - 195	148 - 396	210 - 635	3 - 227	62 - 322					179 - 274	1 - 210			458 - 291		137 - 373	3 - 182	310 - 591	141 - 518	64 - 249	340 - 546	354 - 145		17 - 154	
2676	2088	2089	2090	2091	2092					2093	2094			2095		2096	2097	2098	2099	2100	2101	2102		2103	
951284	928407	494874	559949	975087	715082					699046	887600			670083		710928	625362	765390	726535	867818	688692	948721		974606	
	HPJCU29	HPJCT81	HPJCT26	HPJCS73	HPJCS43					HPJCS32	HPJCN60			HPJCL55		HPJBU40	HPJBU09	HPJBS74		HPJBS35	HPJBL76	HPJBL30		HPJBK25	

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						_																	134580,	145260,	600105,	600759,	0/6100	
	· -					_			_			-											1q32.1	1				
S0152: 1				L0754: 2 and S0152: 1.	S0152: 1					S0152: 1 and L0748: 1.	AR050: 26, AR051:	20, AR054: 10	S0152: 1	AR061: 2, AR089: 1	50152: 1			S0152: 1	S0152: 1	S0152: 1	S0152: 1 and L0439: 1.	L0439: 2 and S0152: 1.	S0152: 1				02041 00 1304	AR051: 32, AR050:
Pro-8 to Leu-18,	Gly-45 to Ala-53,	Pro-56 to Trp-63,	Pro-67 to Arg-73.	Ser-7 to Lys-12.		Ser-41 to Trp-46,	Cys-57 to Gln-68,	Tyr-79 to Gly-84.			7	2		Ser-2 to Arg-7.		Gln-10 to Leu-26.		Pro-75 to Phe-84.			Thr-31 to Glu-37.	Ser-42 to Lys-48.	Leu-17 to Asn-31,	Gly-55 to Ala-62,	Arg-66 to Ala-87.			Leu-62 to Ser-75.
4791				4792	4793	5364			5365	4794	4795		•	4796		5366	5367	4797	4798	4799	4800	4801	4802				4000	4803
2 - 331				252 - 404	762 - 544	104 - 370			643 - 1290	170 - 319	164 - 322			716 - 531		865 - 1110	127 - 612	098 - 62	3 - 176	65 - 166	476 - 652	193 - 2	3 - 278				250	20 - 310
2104				2105	2106	2677			2678	2107	2108			2109		2679	2680	2110	2111	2112	2113	2114	2115				2110	2110
974593				717088	607408	884685			885717	806718	887830		·	824243		892302	945194	754858	751384	734503	000699	725761	419786	****			00000	88/81/
HPJBK14 974593				HPJBH45	HPJAX30					HPJAU73	HPJAP92			HPJA013				HPJAN69	HPJAN67	HPJAN57	HPJAJ20	HPJAE51	HPJAA27				TODICION	HPICG93

							120435,	120435,	120000,	135300,	136435,	152790,	152790,	57170,	82601.	278300,	601071.	601771,	602134						
								-1 . <u>-</u>	<u>- </u>			,1		=	-=	. 5	9	9	<u> </u>			:			
26, AR054: 17	S0150: 1	S0150: 1, L0439: 1 and L0740: 1.	L0439: 2, L0756: 2, S0150: 1 and L0438: 1.	S0150: 1, L0748: 1 and L0439: 1.	L0439: 3, S0150: 1, .0740: 1 and L0749: 1.	S0150: 1 and L0748: 1.	S0150: 1 and L0748: 1. 2p22-p21													S0150: 1 and L0751: 1.		S0150: 1	S0150: 1	S0150: 1	S0150: 1
2		<u> </u>	S	<u> </u>	Lys-79 to Phe-85.	Glu-7 to Ser-13.	-	Ser-65 to Gly-72.							•		-			Ser-49 to Pro-54,	Pro-60 to His-70.				
		4804	4805	4806	4807	4808	4809											_		4810		4811	4812	4813	4814
		607 - 816	296 - 517	123 - 362	213 - 473	1 - 135 .	169 - 420	•		-										1 - 285		77 - 178	47 - 247	1 - 186	182 - 289
		2117	2118	2119	2120	2121	2122													2123		2124	2125	2126	2127
		935095	708183	743135	786741	867845	838809								:					185971		867850	715037	106869	688489
		HPICE06	HPIBY36	HPIBT62	HPIBO89	HPIBI89	HPIBH31													HPIBC93			HPIBB43	HPIBB32	HPIBB19

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												164731,	172400,	172400,	180901,	180901,	221770,	248600,	600918,	602716					
												19q13.1				_									
L0748: 2 and S0150: 1.	L0717: 2 and S0150: 1.			AR089: 18, AR061: 9): 1	L0439: 6 and S0150: 1.	S0150: 1 and L0365: 1.		5: 1	5: 1	5: 1	S0148: 1 and L0748: 1. 19q13.1									H0674: 1 and L0362:	H0674: 1 and L0363:		H0169: 1 and L0766:	H0169: 1 and L0747:
L0748	L0717			AR089	S0150:	L0439	S0150		S0176: 1	S0176: 1	S0176: 1	S0148									H067.	7290H	1.	H0169	H016
Ala-6 to Ser-25.	Cys-19 to Trp-24, Ser-29 to Glu-34,	Phe-47 to Trp-52,	Arg-57 to Gly-68.	Gly-36 to Thr-41.		Asp-7 to Thr-15.	Lys-91 to Pro-96.		Val-33 to Lys-39.								-			•		Lvs-2 to Lvs-10.			Pro-108 to Gly-113.
4815	4816			4817		4818	4819	5368	4820	4821	4822	4823									4824	4825		4826	4827
223 - 426	41 - 322			185 - 436		102 - 476	547 - 834	172 - 35 .	157 - 273	52 - 189	3 - 209	417 - 127									1 - 120	414 - 683		398 - 583	3 - 341
2128	2129			2130		2131	2132	2681	2133	2134	2135	2136					•				2137	2138		2139	2140
790033	935111			973604		774817	286906	961313	790313	671118	793084	778036									969886	961758		709302	780198
HPIAW91	HPIAV06			HPIAQ70		HPIAP79	HPIAD10		HPHSB91	HPHSB21	HPHSA94	HPHAE81									HPFMG06	HPFMB10		HPFDX38	HPFCZ82

						,					
H0169: 1 and L0740: 1.	H0169: 1	H0169: 1, L0809: 1 and L0754: 1.	AR050: 7, AR054: 3, AR051: 1 H0169: 1	AR050: 20, AR051: 4, AR054: 4 H0169: 1	H0169: 1, L0766: 1, L0776: 1, L0790: 1, L0741: 1 and L0779: 1.	L0598: 2, H0169: 1 and L0731: 1.	H0169: 1 and L0777:	L0752: 2, H0169: 1, L0794: 1 and L0751: 1.	H0169: 1 and L0748:	L0748: 2 and H0169:	H0673: 1, L0805: 1 and L0731: 1.
		Thr-52 to Tyr-57.	Pro-24 to Gly-44, Pro-47 to Tyr-56.				Cys-6 to His-17.		Gly-33 to Arg-39.	Gly-18 to His-30.	Gly-18 to Glu-29, Leu-55 to Gln-60, His-109 to Gly-117, Gly-122 to Pro-127.
4828	4829	4830	4831	4832	4833	4834	4835	4836	4837	4838	4839
298 - 444	33 - 272	93 - 263	435 - 632	138 - 245	72 - 251	178 - 294	20 - 187	56 - 274	94 - 261	151 - 393	231 - 623
2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	. 2152
430125	968360	675120	867881	526574	723501	682098	732601	867889	921196	928672	969248
HPFCZ60	HPFCZ10	HPFCR23	HPFCP82	HPFCP53	HPFCM45	HPFCM27	HPFCL56	HPFCL24	HPFCG02	HPFCA01	HPELD12

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					_																			
L0748: 2, H0673: 1	and L0749: 1.	H0673: 1, L0769: 1	and LU/68: 1.	H0166: 1	H0166: 1	H0166: 1	H0166: 1		H0166: 1	H0166: 1	H0166: 1	H0166: 1	H0166: 1, L0748: 1	and L0747: 1.	L0770: 2, H0166: 1,	.0665: 1 and L0749: 1.	H0166: 1 and L0745:	L0759: 2 and H0166:			H0166: 1 and L0542:	AR061: 57, AR089: 38	H0166: 1 and L0749:	
			B		Lys-15 to Gly-25.	Lys-9 to Trp-17.	Lys-26 to Cys-31,	Arg-38 to Asp-46.	Leu-12 to Ser-17.	Asp-20 to His-27.		Thr-78 to Arg-84.		a	Lys-19 to Asn-27.	1	-	Gly-2 to Cys-7,	Glu-28 to Glu-40,	Glu-53 to Lys-58.	Phe-26 to Trp-32.	Cys-14 to Ser-26,		Cys-14 to Ser-26, Glu-40 to Lys-60.
4840		4841		4842	4843	4844	4845		4846	4847	4848	4849	4850		4851		4852	4853			4854	4855		5369
43 - 165		159 - 350		1 - 111	59 - 148	45 - 245	86 - 397		106 - 300	44 - 301	3 - 98	42 - 317	1 - 228		227 - 313		105 - 341	80 - 277			75 - 284	268 - 504		182 - 361
2153		2154		2155	2156	2157	2158		2159	2160	2161	2162	2163		2164		2165	2166			2167	2168		2682
926104		914414		524246	773844	753692	731002		530021	706836	535061	954214	578516		960240		921767	785942			888298	910250		912272
HPEKI04		HPEKE01		HPEBT82	HPEBT78	HPEBT68	HPEBT54		HPEBT49	HPEBT34	HPEBT14	HPEBT07	HPEBO67		HPEBL08		HPEBH01	HPEBG89			HPEBG10	HPEBA89		

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):			;	3:			5:	_				1.		. pu	8:): -	2:			1.	4:
H0166: 1	H0166: 1 and L0779:	H0165: 1		H0165: 1 and L0744:	1. L0794: 4 and H0165:	1.	H0165: 1	H0165: 1 and L0526:	1.	L0759: 2, L0769: 1,	L0768: 1, L0794: 1,	L0805: 1, H0658: 1,	L0750: 1 and L0777: 1	L0439: 2, L0717: 1,	L0803: 1, H0658: 1 and	L0779: 2 and H0658:	1	H0658: 1 and L0779:	1. H0658: 1 and L0756:	1.	L0666: 2, L0766: 1,	L0655: 1 and H0658: 1	H0658: 1 and L0604:
	Gly-14 to Ser-19.		Pro-4 to Thr-17.		Ser-7 to Lys-13,	Leu-29 to Ser-36.	Leu-11 to Ala-18, Gly-22 to Ser-41.			Gly-1 to Thr-13,	Arg-37 to Ser-45,	Arg-52 to Asn-73.						Ala-10 to Lys-18.	Glv-13 to Tm-21.		Pro-65 to His-76,	Asn-110 to Phe-118.	Asp-11 to Asn-17.
4856	4857	4858	5370	4859	4860		4861	4862		4863				4864		4865		4866	4867		4868		4869
2 - 70	2 - 178	83 - 232	7111 - 9/	45 - 383	2 - 178		199 - 414	186 - 308		261 - 548				287 - 472		311 - 433		25 - 117	118 - 342		448 - 74		54 - 299
2169	2170	2171	2683	2172	2173		2174	2175		2176				2177		2178		2179	2180		2181		2182
742251	928027	468542	589933	761472	968847		514231	668298		965249				928563	·	913859		965276	965307		109896		951838
HPEBA61	HPEBA05	HPEAG43		HPEAD72	HPEAB12		HPEAA57	HPEAA40		HPDWR11				HPDWN05		HPDVM01		HPDVD11	HPDR1111		HPDRR06		HPDRN07

				13										
1.	L0748: 2, H0658: 1 and L0750: 1.	H0658: 1, L0777: 1 and L0592: 1.	L0523: 1 and H0658:	H0658: 1	L0766: 2, L0776: 2, H0658: 1 and L0779: 1.	L0769: 3 and H0658:	L0770: 2 and H0658:	H0649: 1, L0740: 1 and L0756: 1.	AR089: 6, AR061: 2 H0659: 1	L0659: 2, H0659: 1 and L0779: 1.	L0805: 1, L0776: 1 and H0659: 1.	L0800: 1, H0659: 1 and L0747: 1.	AR089: 23, AR061: 7 L0439: 2, L0369: 1 and H0659: 1.	AR050: 18, AR054: 18, AR089: 5, AR051:
		Arg-10 to Gln-16, Pro-24 to Gly-30.	Thr-1 to Asn-13, Pro-35 to Lys-42.	Arg-23 to Val-29.	Met-6 to His-12.					Arg-40 to Gln-47.	Arg-6 to Arg-11.			Pro-18 to Gln-28, Gln-42 to Asn-49,
	4870	4871	4872	4873	4874	4875	4876	4877	4878	4879	4880	4881	4882	4883
	339 - 674	1 - 255	3 - 179	120 - 398	280 - 429	338 - 520	30 - 227	207 - 446	3 - 332	150 - 347	2 - 328	85 - 222	97 - 249	1 - 369
	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196
	914416	969342	969341	957822	961782	961881	965491	917480	922149	925777	951646	954940	911075	946913
	HPDRG01	HPDPS12	HPDPP12	HPDPC08	HPDOW10	HPD0010	HPDOF11	HPCTK02	HPCTD03	HPCTC04 925777	HPCQQ07	HPCPM63	HPCOV68	HPCAO89

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												,													•			
	0146: 1.			0754: 1.						0591: 1.		3: 2,	.1,	757: 1.				.0750:		61: 2		:0766:	-	.0462:		-		H0428:
4, AR061: 2	L0761: 1 and S0146: 1.	S0146: 1		S0146: 1 and L0754: 1.	S0146: 1	S0146: 1				S0146: 1 and L0591: 1	S0146: 1	L0748: 3, L0603: 2,	H0428: 1, L0771: 1,	L0749: 1 and L0757: 1		H0428: 1	H0428: 1	H0428: 1 and L0750:	1	AR089: 7, AR061:	H0428: 1	H0428: 1 and L0766:	1.	H0428: 1 and L0462:	-			L0439: 12 and H0428:
Ser-72 to Arg-81.		Lys-9 to Tyr-14,	Glu-44 to His-50.		Asp-38 to Ala-43.	Glu-16 to Glu-27,	Glu-35 to Ser-46,	Glu-56 to Ala-64.		Gly-1 to Gly-11.	Pro-21 to Thr-40.	3ly-50 to Thr-57,		Glu-86 to Cys-96,	Met-106 to Gly-124.			Ser-27 to Gly-32.			Cys-38 to Thr-44.	Arg-2 to Cys-11,	Cys-15 to Gly-20.	Glu-25 to Pro-39,	Thr-44 to Tyr-50,	Pro-53 to Gln-60,	Ser-67 to Val-82.	Tyr-17 to Gln-23,
		4884		4885	4886	4887			5371	4888	4889	4890				4891	4892	4893	\dagger	4894		4895		4896				4897
		85 - 237		190 - 348	75 - 275	465 - 271		•	145 - 312	2 - 409	8 - 247	49 - 540				170 - 328	106 - 201	18 - 179	777	88 - 444		2 - 172		3 - 323			_	120 - 299
		2197		2198	2199	2200			2684	2201	2202	2203				2204	2205	2206	2000	7.077		2208		2209				2210
		320415		778177	273368	584754			584755	728857	575233	914553				961865	933737	602926	00000	909030		948619		288196				772210
		HPCAK66		HPCAG81	HPCAF65	HPCAD17				HPCAB54	HPCAB45	HOVEV01				HOVEU10	HOVEU06	HOVEO04	TOTATION	HOVEEZU		HOVDD82		HOVDD10				HOVCP77

	H0428: 1, L0752: 1 and L0759: 1.	H0428: 1 and L0744: 1.	H0428: 1 and L0439: I.	H0428: 1 and L0750: 1.	H0428: 1	H0428: 1, L0743: 1,	L0752: 1 and L0592: 1.	L0439: 2 and H0428:	H0428: 1 and L0581: 1.	H0428: 1, L0764: 1 and L0758: 1.	H0428: 1 and L0740: 1.	L0766: 2, H0428: 1, L0775: 1, L0782: 1, L0783: 1, L0748: 1 and L0758: 1.	H0428: 1, L0748: 1 and L0581: 1.	L0749: 2 and H0428: 1.
Lys-32 to Ser-38.		Lys-1 to Gln-12, Cys-44 to Lys-49.	Arg-30 to Lys-39.	Glu-10 to Thr-18.		Pro-43 to Ser-49.		Asp-33 to Val-38.		Asp-1 to Val-13, Ser-17 to Ser-26.			Gln-1 to Leu-7, Ser-32 to His-42.	
	4898	4899	4900	4901	4902	4903		4904	4905	4906	4907	4908	4909	4910
	425 - 586	143 - 301	107 - 265	159 - 257	194 - 322	938 - 75		124 - 252	210 - 380	200 - 604	116 - 424	33 - 263	75 - 353	155 - 355
	2211	2212	2213	2214	2215	2216		2217	2218	2219	2220	2221	2222	2223
	932544	734779	772208	924196	786917	959470		702445	465313	858863	757594	956238	858857	751665
	HOVCO50	HOVCN57	HOVCM77	НОУСМ03	H-JVCI89	HOVCI08		HOVCD33	HOVCC57	ноувоо7	НОУВК69	НОУВК38	HOVBK24	HOVBI67

H0428: 1 and L0748:	H0428: 1	L0740: 2 and H0428:	H0428: 1	H0428: 1 and L0754:		H0428: 1	H0428: 1	L0516: 2, H0428: 1	and L0753: 1.	H0428: 1 and L0748:	1.	L0748: 5, H0428: 1 and L0749: 1.	H0428: 1 and L0743:	H0428: 1 and L0752:	H0428: 1	H0428: 1	H0428: 1	H0428: 1 and L0748:
	Glu-14 to Pro-19, Arg-24 to Arg-36, Arg-85 to His-90.		Asn-20 to Lys-25.	Val-1 to Thr-11,	Tyr-23 to Leu-31, Arg-47 to Thr-52.	Asn-20 to Glu-26.							Lys-40 to Phe-47.	Val-41 to Lys-46.		Phe-58 to Arg-67, Leu-71 to Thr-77.		Ile-23 to Cys-35.
4911	4912	4913	4914	4915		4916	4917	4918		4919		4920	4921	4922	4923	4924	4925	4926
1 - 183	2 - 298	275 - 457	203 - 409	179 - 388		168 - 320	147 - 1	2 - 247		112 - 270		3 - 122	279 - 452	2 - 199	22 - 102	245 - 3	181 - 366	36 - 197
2224	2225	2226	2227	2228		2229	2230	2231		2232		2233	2234	2235	2236	2237	2238	2239
0669730	904818	750273	827077	736077		713812	921959	745704		678163		725005	953422	932093	953553	916770	578783	278809
HOVBI20	HOVAZ89	HOVAZ65	HOVAY88	HOVAY58		HOVAY42	HOVAY03	HOVAW62		HOVA025		HOVAN51	HOVAJ07	HOVAI05	HOVAF07	HOVAF01	HOVAC77	HOVAC54

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H0428: 1	H0428: 1	L0756: 2, L0361: 2, H0428: 1, L0598: 1 and L0592: 1.	L0776: 1 and H0648: 1.	L0758: 3, L0779: 2, H0648: 1 and L0740: 1.	H0648: 1 and L0777: 1.	L0770: 1, L0794: 1, L0804: 1 and H0648: 1.	H0648: 1 and L0750: 1.	L0758: 3 and H0648: 1.	H0648: 1 and L0758:	L0751: 3, L0764: 1, L0518: 1, H0648: 1, L0747: 1 and L0752: 1.	H0648: 1 and L0596:
Gln-12 to Gly-17, Ser-28 to Pro-39.	Asp-1 to Arg-6, Thr-31 to Leu-43, Val-53 to His-59, Pro-61 to Val-73, Ser 81 to Ser 06		Lys-38 to Lys-50.	Thr-31 to Lys-40.		Arg-21 to Leu-27.	Pro-48 to Phe-72.	Val-16 to Thr-26, Pro-30 to Ser-36, Pro-53 to Glu-58.	Lys-34 to Gly-41.	Pro-42 to Asp-55.	Glu-34 to Glu-44.
4927	4928	4929	4930	4931	4932	4933	4934	4935	4936	4937	4938
45 - 278	3 - 407	256 - 477	210 - 359	508 - 239	17 - 283	3 - 260	205 - 420	37 - 210	248 - 379	280 - 444	2 - 205
2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251
578810	578788	578791	961499	925784	925774	925783	965292	928627	917454	928644	922510
HOVAC26	HOVAB85	HOVAB61	HOOKF10	HOOKF04	H00JU04	HOOJN04	HOOJK11	ноолноя	HOOJE02	HOOIL05	HOOIG03

																					
							,														
H0648: 1, L0748: 1,	LO751: 1, L0754: 1 and L0749: 1.	H0648: 1, L0754: 1 and L0750: 1.	L0666: 1 and H0648:	H0028: 1 and L0792:		H0028: 1 and L0777:	L0766: 1 and T0068: 1.	AR051: 655, AR050:	494, AR054: 346	T0068: 1	T0068: 1 and L0749: 1.	T0068: 1 and L0592: 1.	AR061: 1, AR089: 1	T0068: 1 and L0779: 1.	H0435: 1	L0774: 1 and H0435:	H0435.1	0455.1	L0439; 2 and H0435;	H0435: 1 and L0743:	H0435: 1 and L0748:
Phe-13 to Gln-24.	<u> </u>	H an	Arg-1 to Cys-10, Lys-17 to Gly-24.		Gly-14 to Gly-23, 1.		 Glu-1 to Lys-6.		64	T	Gly-18 to Thr-32.	Ser-6 to Lys-14.	A	I	Ser-1 to Gly-11.	T	I. ve-10 to Δεη-16 H	1	<u> </u>	H H	H
4939 P		4940	4941 A	4942 H	9 -	4943 S	4944 G	4945			4946 G	4947 S	4948		4949 S	4950	4051	Ť	4952	4953	4954
210 - 374		1 - 171	1 - 150	249 - 49		196 - 579	3 - 116	677 - 333			344 - 559	174 - 290	732 - 1040		2 - 145	163 - 414	484 - 732	757 100	389 - 763	205 - 441	1 - 240
2252		2253	2254	2255		2256	2257	2258			2259	2260	2261		2262	2263	2264	1000	2265	. 2266	2267
917424		190696	933873	522227		932925	019896	936029			723571	747152	829016		973221	922578	073777	122017	657284	463874	964761
НООНР02		нооне67	90СНООН	HOOAB23		HOOAB05	HONAK10	HONAH06			HONAE50	HONAD65	HONAD02		HOGEW23	нодром	HOGCW89	200001	носстт	HOGCR31	HOGCR10

	223900, 253800, 253800			1											
	9q31.2														
L0766: 3 and H0435:	H0435: 1 and L0748: L	L0369: 1 and H0435: 1.	H0435: 1	L0745: 2 and H0435: 1.	L0748: 2 and H0435: 1.	H0435: 1 and L0439: 1.	H0435: 1 and L0747: 1.	H0435: 1	H0435: 1 and L0777: L.	L0748: 2 and H0435: 1.	H0435: 1 and L0596: I.	L0747: 2, H0435: 1,	L0742: 1, L0596: 1 and	L0591: 1.	
Ser-19 to Asp-31.				Gly-2 to Tyr-8.	Arg-8 to Leu-17.	Ser-17 to Trp-23.	Arg-1 to Phe-13.		Lys-3 to Phe-8.	Arg-1 to Gly-19, Lys-35 to Trp-43.	Asp-22 to His-28, Arg-49 to Ser-54.	Lys-10 to Ser-15,			Lys-115 to Phe-124, Glu-137 to Asp-148,
4955	4956	4957	4958	4959	4960	4961	4962	4963	4964	4965	4966	4967			
3 - 608	2 - 202	126 - 509	247 - 393	101 - 241	298 - 501	208 - 50	2 - 163	973 - 779	227 - 379	221 - 397	163 - 369	2 - 634			
2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280			
920658	930813	859077	761991	745130	750308	847191	682232	908904	764490	681919	760431	734848			
HOGCQ54	нодсноя	HOGCE07	HOGCD61	E922DOH	HOGCA65	HOGBJ26	HOGBE27	HOGAM56	HOGAI73	HOGAI26	HOGAH71	HOGAG57			

				Γ															-							
				104770,	107670,	110700,	135940,	145001,	146790,	152445,	152445,	159001,	174000,	179755,	182860,	182860,	182860,	191315,	230800,	230800,	266200,	600897,	601105,	601412,	601652,	602491
				1q21	1								- ·													
	L0748: 2 and H0435: 1.	H0435: 1	H0415: 1	H0415: 1																						
Gly-165 to His-171, Glu-189 to Lys-211.			Asp-48 to Glu-53, Pro-72 to Ser-81.	Glu-17 to His-23,	His-26 to Ser-34,	Gly-40 to Glu-45.	,																			
	4968	4969	4970	4971																						
	298 - 576	578 - 324	46 - 336	213 - 28																						
	2281	2282	2283	2284																						
	772319	756713	789232	533713																						
	HOGAD77	HOGAC69	HOFNW81	HOFNW69 533713												•										

					:																							
H0415: 1	AR089: 5, AR061: 3	H0415: 1		H0415: 1		H0415: 1				L0748: 2 and H0415:			H0415: 1			H0415: 1				H0415: 1	H0415: 1	H0415: 1			H0415: 1	H0415: 1	H0415: 1	H0415: 1
Lys-18 to Asp-23.	Arg-14 to Asn-19,	Ala-35 to Ser-45,	Gln-74 to Glu-90.	Asn-12 to Glu-19,	Lys-30 to Phe-35.	Arg-10 to Arg-19,	Asn-50 to Ser-61,	Met-65 to Lys-71,	Ala-83 to Asn-89.	Phe-5 to Pro-10,	Gln-71 to Ser-77,	Lys-86 to Glu-91.	Pro-3 to Ala-17,	Asn-56 to Asp-62,	Gln-85 to Gly-100.	Gln-1 to Ser-6,	Ser-36 to Ser-45,	Leu-47 to Pro-54,	Arg-59 to Gly-69.			Arg-1 to Arg-6.	Gly-9 to His-30,	Arg-48 to Pro-57.	U _A P	Gln-7 to Gly-15.		
4972	4973			4974		4975				4976			4977			4978				4979	4980	4981	5372		4982	4983	4984	4985
1 - 132	3 - 431			2 - 118		37 - 411				3 - 347			3 - 380			90 - 323				1 - 138	52 - 273	59 - 253	1 - 177		151 - 351	166 - 408	111 - 302	35 - 232
2285	2286			2287		2288				2289		•	2290			2291			,	2292	2293	2294	2685		2295	2296	2297	2298
753048	815822			720755		953436				724437			695888			788947				784366	760643	760392	773729		859094	859093	713816	859102
HOFNW68	HOFNW65			HOFNW45		HOFNW07				HOFNU50			HOFNL96			HOFNI90				HOFNI85	HOFNI72	HOFNI71			HOFNI58	HOFNI56	HOFN142	HOFNI37

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H0415: 1	H0415: 1	H0415: 1	H0415: 1	AR051: 12, AR050:	12, AR054: 10, AR061:	2, AR089: 1	H0415: 1	H0415: 1	H0415: 1	H0415: 1	H0415: 1	H0415: 1	H0415: 1	H0415: 1		AR050: 84, AR054:	73, AR051: 55, AR089:	21, AR061: 8	H0415: 1	AR051: 10, AR054: 9,	AR050: 2	H0415: 1	AR051: 15, AR050: 9,	AR089: 7, AR061: 5,	AR054: 1	H0415: 1	H0415: 1
	Gly-1 to Gly-11, Thr-59 to Gly-64.		Gln-16 to Gln-23.	Ser-9 to Lys-18.				Glu-21 to Asp-26.		Arg-1 to Thr-15.	Arg-18 to Lys-24.	Arg-18 to Gly-24.	Gln-85 to Pro-91.			Val-17 to Glu-24.				Asp-1 to Leu-10,	Glu-38 to Cys-74.		Asp-1 to Asp-17,	Pro-61 to Asn-66,	Tyr-84 to Tyr-90,	Ser-103 to Trp-110.	
4986	4987	4988	4989	4990				4991	4992	4993	4994	4995	4996	4997	5373	4998		•		4999			2000				5001
3 - 263	2-217	2 - 193	1 - 201	1 - 315				139 - 243	179-3	2-67	187 - 432	2 - 154	256 - 528	993 - 625	217 - 402	87 - 239				3 - 269			658 - 8				3 - 461
2299	2300	2301	2302	2303				2304	2305 ·	2306	2307	2308	2309	2310	2686	2311	-			2312			2313				2314
859103	699299	964682	917347	835718				774037	613681	731801	725684	489858	743184	824242	190706	888552				891512			947973	•	-		972725
HOFNI33	HOFNI32	HOFNI10	HOFNI02	HOFNC80				HOFNC79	HOFNB63	HOFNB55	HOFNB51	_	HOFMU67	_		HOFMT55				HOFMT45			HOFMS43				HOFMS09

																			•					-					
																,													
AR089: 20, AR061: 9	H0415: 1	H0415: 1			AR089: 2, AR061: 1	H0415: 1			•											H0415: 1		AR050: 21, AR051:	10, AR054: 9	H0415: 1	H0414: 1	AR054: 15, AR051: 3,	AR050: 0	H0414: 1	
Ala-74 to Gly-84,	Arg-98 to Lys-104.	Lys-28 to Val-33,	Gln-40 to Gly-48.	Asn-33 to Leu-38.	Thr-1 to Lys-7,	Ala-17 to Arg-33,	His-35 to Asn-45,	Glu-47 to Arg-52.	Phe-8 to Ser-21,	Ile-28 to Arg-33,	Ile-40 to Gly-49,	Ala-56 to Gln-61,	Gln-69 to Ser-76,	Ala-91 to Tyr-96,	Thr-119 to Cys-126,	Ser-132 to Arg-144,	Thr-147 to Asp-158.	Arg-17 to Leu-32,	His-43 to Cys-54.	Asp-1 to Asn-6,	Met-46 to Phe-53.	Arg-1 to Gly-14,	Glu-35 to Leu-42,	Thr-54 to Lys-61.		Pro-19 to Arg-27,	Ser-36 to Asn-42,	His-101 to Pro-107,	Gly-150 to Gln-155,
5005		5003		5374	5004				5375									5376		5005		2006			2002	2008			
1 - 372		145 - 2		3 - 839	2 - 169				3 - 476									1 - 447	•	3 - 395		2 - 397			271 - 993	3 - 527	•		
2315		2316		2687	2317				2688									5689		2318		2319			2320	2321			
943358		491360		859125	286869				694062									909248		788733		888780			942367	886485			
HOFMP09		HOFMI25			HOFMF82															HOFMF81		HOFMF19			HOFAF25	HOFAD78			

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	L0623: 2, H0615: 1 and L0519: 1.	H0615: 1, L0435: 1 and L0759: 1.	H0615: 1, L0520: 1 and L0766: 1.	H0615: 1 and L0754: 1.	H0615: 1 and L0758:	 i	L0471: 1, H0615: 1, L0748: 1 and L0749: 1.	L0471: 1, H0615: 1	and L0748: 1.	L0777: 2 and H0615:	1.	H0615: 1 and L0775:	1.		H0615: 1 and L0666:	H0615: 1, L0775: 1 and L0748: 1.	L0747: 2 and H0615:	-		•
Ser-167 to Thr-175.	Gly-13 to Ser-20, Arg-41 to Thr-47.	Arg-52 to Asn-61.		Thr-26 to Ser-33.	Arg-1 to Val-10,	Trp-12 to Tyr-20, Arg-47 to Ser-63.	Arg-8 to Arg-16.			Asn-1 to Asp-6,	Phe-8 to Ser-14.	Pro-15 to Gly-24,	Cys-36 to Ile-44,	Arg-77 to Pro-112.	Ser-17 to Gln-29.	Ser-2 to Ile-16.	His-1 to Arg-7,	Ala-45 to Arg-52,	Ser-75 to Leu-80,	Arg-89 to Asp-94,
	5009	5010	5011	5012	5013		5014	5015		5016		5017			5018	5019	5020			
	3 - 143	91 - 309	128 - 328	114 - 278	338 - 610		461 - 610	237 - 368		122 - 358		3 - 494			3 - 170	222 - 491	3 - 563			
	2322	2323	2324	2325	2326		2327	2328		2329		2330			2331	2332	2333			
	951875	929321	926200	952193	690996		859300	918476		963350		842138			885696	926278	795281			
	HODKG07	НОБЛО	HODJL04	НОБНК07	HODHG11		HODGL88	HODGJ02		HODFY10		HODFX19			HODFX12	HODFX04	HODFW95			

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	H0615: 1, L0805: 1 and L0776: 1.	H0615: 1 and L0756:	H0615: 1	L0777: 2 and H0615: 1.	H0615: 1	H0615: 1	H0615: 1 and L0362:	AR054: 34, AR051:	29, AR050: 23, AR089:	4, AR061: 4	H0615: 1	H0615: 1 and L0748:	AR061: 10, AR089: 4 H0615: 1	H0615: 1 and L0749:	H0615: 1	L0748: 3 and H0615: 1.	H0615: 1 and L0748:	L0534: 1 and H0615: 1.
Arg-139 to Glu-158.			Lys-1 to Thr-22.					His-8 to Gly-18,	167.					Thr-47 to Lys-53.	His-34 to Trp-39.			
	5021	5022	5023	5024	5025	5026	5027	5028				5029	5030	5031	5032	5033	5034	5035
	386 - 556	35 - 199	239 - 463	326 - 460	81 - 338	453 - 593	1-150	14 - 544				85 - 249	1-576	66 - 242	215 - 436	2 - 286	354 - 127	90 - 200
	2334	2335	2336	2337	2338	2339	2340	2341				2342	2343	2344	2345	2346	2347	2348
	859320	783789	948703	590996	974317	974916	161622	974911				656936	909812	774156	974337	915167	952194	963474
	HODFW40	HODFR85	HODFL37	HODFJ11	HODFI66	HODFH45	HODFG82	HODFF88				HODFE04	HODFD73	HODFC79	HODEZ45	норел01	HODET07	HODES10

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H0615: 1, L0376: 1 and L0759: 1.	H0615: 1 and L0753: 1.	H0615: 1, L0060: 1 and L0462: 1.	H0328: 1 and L0748:	H0328: 1 and L0756:	H0328: 1 and L0748:	H0328: 1		H0328: 1, L0373: 1	AR051: 30, AR050: 10	110326. 1	and L0596: 1.	H0328: 1, L0748: 1	and L0439: 1.	H0328: 1	H0328: 1 and L0777:	H0328: 1	H0328: 1 and L0748:	H0328: 1
	Leu-1 to Phe-8.			Thr-1 to Val-7.	Arg-21 to Phe-27, Ser-45 to Trp-50.		Pro-46 to Tyr-51.	Asp-1 to Asp-8.	Pro-35 to Lys-46.			Asn-36 to Thr-47.						Ser-51 to Leu-56,
5036	5037	5038	5039	5040	5041	5042	5377	5043	5044	5045	3043	5046		5047	5048	5049	5050	5051
2 - 136	420 - 596	3 - 527	73 - 393	301 - 453	83 - 235	271 - 420	173 - 481	3 - 200	71 - 208	3 202	3 - 203	214 - 414		212 - 352	40 - 207	187 - 393	82 - 219	28 - 354
2349	2350	2351	2352	2353	2354	2355	2690	2356	2357	2250	2330	2359		2360	2361	2362	2363	2364
859364	779245	859375	745810	531075	268863	420051	704622	920961	745966	075011	1100/0	764543		859543	781287	868291	660502	973286
НОБЕОЗ5	HODEK82	HODEA14	HODDX64	HODDS89	HODDS74	HODDF37		норре02	HODCZ64	HODC730	110000239	HODCY73		HODCY32	HODCW83	HODCV61	HODC015	HODCJ84

	H0328: 1, L0455: 1 and L0777: 1.	H0328: 1 and L0749: 1.	H0328: 1 and L0748: 1.	H0328: 1, L0527: 1 and L0749: 1.	L0598: 2 and H0328: 1.	AR051: 91, AR050:	H0328: 1	H0328: 1	H0328: 1	L0794: 2, L0750: 2,	H0328: 1, L0766: 1,	L0803: 1, L0788: 1 and 10755: 1	H0328: 1 and L0792:].	L0731: 2 and H0328: 1.	H0328: 1 and L0748:	L0731: 3 and H0328:	L0745: 2, H0328: 1,
Ser-84 to Leu-90.	Val-10 to Glu-16.	Asn-44 to Asn-51.		Pro-43 to Ser-54.	Pro-33 to Phe-39, Tyr-50 to Ser-56.	Gly-1 to Ser-17.		Tyr-35 to Ile-42.		Leu-1 to Gly-12.					His-1 to Gly-6, Cys-9 to Thr-18.	Thr-8 to Arg-14, Ser-37 to Glu-42.	Ser-8 to Ser-13.	
	5052	5053	5054	5055	2056	5057		5058	5059	2060			5061		2062	5063	5064	5065
	397 - 552	62 - 313	60 - 236	344 - 595	99 - 566	203 - 460		1 - 159	24 - 215	2 - 193			196 - 336		126 - 308	104 - 340	280 - 486	18 - 257
	2365	2366	2367	2368	2369	2370		2371	2372	2373			2374	1	2375	2376	2377	2378
	932633	792611	784526	960178	766284	829528		742114	529387	702750			529389	000	6/526/	764670	529635	721931
	HODCC05	HODCA90	HODBZ85	HODBX08	HODBU72	HODBK84		HODBF61		HODBF33			HODBF17	000001	НОВВВЗ	HODBD73	HODBC42	HODBA48

							230400,	250250													
							9p13-p12														
L0740: 1 and L0759: 1.	H0328: 1	L0748: 2 and H0328:	H0328: 1	L0748: 3, L0740: 2,	L0803: 1, L0/66: 1,	L0665: 1 and L0612: 1.	AR061: 11, AR089: 9	L0748: 3 and H0328:	H0328: 1 and L0596:	1	H0328: 1	H0328: 1	H0328: 1	H0328: 1 and L0748:	H0328: 1	H0328: 1	H0328: 1	H0328: 1	H0328: 1	H0328: 1	H0328: 1 and L0605:
	Glu-1 to Gly-13, Gly-21 to Thr-28, Lys-43 to Asn-61.	Pro-1 to Gly-12.	Lys-1 to Ser-7.						Arg-15 to Thr-22,	Ser-28 to Arg-33.			Asp-1 to Arg-8.		Pro-1 to Gly-20, Ser-27 to Ser-34.				Tyr-15 to Gln-27.	Lys-42 to Thr-47.	
	2066	2067	2068	5069			2070		5071		5072	5073	5074	5075	5076	5077	5078	5079	5080	5081	5082
	2 - 205	2 - 103	43 - 210	177 - 308			2 - 169		2 - 133		1 - 135	1 - 117	21 - 101	92 - 319	77 - 253	3 - 167	2 - 298	113 - 238	64 - 198	93 - 251	49 - 198
	2379	2380	2381	2382			2383		2384		2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395
	826693	723449	592179	679165			745532		932639		529638	529637	529639	921680	790588	784534	529560	529563	859582	529570	859583
	HODAZ21	HODAX45	HODAV84	HODAV24			HODAK55		HODAK05		HODAE72	HODAE55	HODAE48	HODAE01	HODAA92	HODAA85	HODAA80	\neg	HODAA54		HODAA21

															-													
1.	H0328: 1	H0328: 1	H0328: 1	L0755: 2, L0758: 2,	L0717: 1, L0365: 1 and	H0660: 1.	L0748: 2, L0756: 2,	L0372: 1, L0663: 1,	L0665: 1, H0660: 1,	L0439: 1 and L0777: 1.	L0766: 1, H0660: 1	and L0758: 1.	L0766: 3 and H0660:	1.	L0763: 1, L0776: 1 and	H0660: 1.			H0660: 1 and L0731:	1.	H0660: 1 and L0749:	-			H0687: 1, L0803: 1	and L0666: 1.	L0766: 4, L0439: 4,	L0646: 1, H0651: 1,
							Arg-14 to Cys-20,	Val-34 to Cys-43,	Pro-45 to Ser-52.		Ser-18 to Ser-27.		Phe-19 to Tyr-34,	Ser-41 to Arg-51.	Ser-19 to Tyr-28,	Glu-34 to Val-45,	Gly-53 to Pro-58,	Glu-63 to Gln-82.	Asp-21 to Leu-45.		Pro-31 to Gly-36,	Ser-60 to Leu-65,	Gln-69 to Thr-76,	Gly-81 to Glu-87.			Thr-12 to Ser-19,	Lys-28 to Ala-39.
	5083	5084	5085	2086			5087				5088		808		2090				5091		5092		·		5093		5094	
	84 - 131	21 - 107	58 - 303	114 - 377			139 - 327				49 - 240		108 - 314		112 - 390			*	2 - 484		432 - 136				1517 - 1771		464 - 625	
	2396	2397	2398	2399			2400			i	2401		2402		2403				2404		2405				2406		2407	
	523382	954157	927711	928651			917453				917630		951744		914464				878363		914552				220696		926258	
	HODAA15	HODAA07	HODAA04	HOCPU05			HOCPH02				HOCPF02		HOCOV07		HOCMM01				HOCMI24		HOCMC01				HNOJJ12		HNOAD04	

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													_				181430,	737800	600808,	601284,	601769,	601769,	602116
		•									·						12q13.3	•					
L0756: 1 and L0759: 1.	H0678: 1	AR051: 4, AR054: 0 H0678: 1	S0326: 1	S0326: 1	S0326: 1, L0769: 1 and L0774: 1.	H0662: 1 and L0748:	H0662: 1 and L0766:	H0662: 1, L0794: 1	and L0758: 1.	H0662: 1 and L0524:	1.	H0662: 1, L0764: 1,	L0803: 1, L0774: 1,	L0758: 1 and L0599: 1.			H0553: 1 and L0754:		••				
			Gln-27 to Asn-35.		Arg-14 to Trp-19.		Tyr-6 to Thr-15.	Glu-1 to Tyr-7,	Pro-42 to Leu-47, Pro-50 to Ala-57.	His-1 to Phe-6,	Asn-58 to Met-65.	Pro-6 to Cys-24,	Glu-26 to Trp-37,	Asn-65 to Leu-73,	Gln-81 to Gly-90,	Gly-100 to Gly-115, Asn-118 to Ser-126.							
	5095	2096	5097	2098	5099	5100	5101	5102		5103		5104					5105						
	358 - 161	588 - 361	111 - 1	2 - 346	387 - 73	91 - 192	3 - 104	321 - 521		109 - 336		3 - 437		•			3 - 245						
	2408	2409	2410	2411	2412	2413	2414	2415		2416		2417					2418						
	957719	899742	683077	764172	974750	617716	922402	933673		914361		961734					754476						
		HNNNA07	HNIAB92		HNIAB26	HNBVH02	HNBVC03	HNBUQ06 933673		HNBU001		HNBUI10					HLWF169						

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	· 		256540, 600281, 600281									
			20q13.1									
H0553: 1 and L0794: 1.	L0617: 1 and H0553:	H0553: 1 and L0747: 1.	H0553: 1 and L0758: 1.	H0553: 1 and L0512:	H0553: 1 and L0740: 1.	H0553: 1 and L0596: 1.	H0553: 1 and L0748: 1.	H0553: 1 and L0756:	H0553: 1 and L0752: 1.	H0553: 1, L0591: 1 and L0595: 1.	H0553: 1, L0783: 1 and L0749: 1.	H0553: 1
Lys-38 to Gly-43.	Gln-1 to Ala-17, Arg-47 to Gln-52.	Lys-1 to Thr-6, Ser-32 to Ser-38.		Trp-5 to Lys-11.	Pro-31 to Gln-38, Ser-58 to Gly-69.	Phe-1 to Gly-6, Phe-40 to Gly-49.	Glu-4 to Ala-9.	Val-33 to Ser-38.	Pro-14 to Arg-26, Pro-28 to Ser-33, Gly-48 to Ala-56.			Pro-6 to Glu-18, Pro-20 to Trp-40, Lys-86 to Arg-92.
5106	5107	5108	5109	5110	5111	5112	5113	5114	5115	5116	5117	5118
56 - 328	1 - 204	179 - 331	2 - 259	1-216	215 - 514	1 - 207	219 - 392	2 - 250	1 - 297	3 - 503	278 - 466	278 - 3
2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431
915399	963548	787632	917643	915378	856512	739801	791854	723787	781069	687995	720156	623773
HLWFB01	HLWEH10	HLWEA90	HLWDZ31	HLWDD01	HLWDB48	HLWCP60	HLWCN93	HLWCN50	HLWCF83	HLWCF33	HLWCE47	HLWCB93

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						136550, 602772							
						6q16.1-q16.3							
	H0553: 1 and L0751: 1.	H0553: 1 and L0748: 1.	AR050: 49, AR054: 47, AR051: 27 H0553: 1	H0553: 1, L0766: 1 and L0747: 1.	L0747: 2 and H0553:	H0553: 1 and L0748:	H0553: 1 and L0759:	H0553: 1 and L0754: 1.	H0553: 1 and L0748:	H0553: 1, L0665: 1, L0439: 1 and L0759: 1.	AR054: 15, AR050: 3,	H0553: 1	
Ser-15 to Ser-23.	Arg-11 to Ser-17.	Arg-2 to Gly-7, Ile-28 to Ile-34, Ser-56 to Val-62.	Ser-1 to Glu-28.	Gly-11 to Trp-16, Cys-53 to Gly-78, Arg-99 to Asp-105, Ser-113 to Glu-119.	Lys-9 to Asn-22.		Leu-20 to Asp-38.	Glu-8 to Gln-18.	Pro-2 to Thr-7, Ala-13 to Arg-20.	Arg-12 to Gly-21.	Glu-7 to Glu-13,	Pro-34 to Arg-44,	Gly-51 to Trp-60, Pro-62 to Ala-72.
5378	5119	5120	5121	5122	5123	5124	5125	5126	5127	5128	5129		
3 - 200	44 - 382	1 - 195	3 - 419	9 - 365	221 - 370	1 - 303	270 - 467	95 - 301	39 - 371	172 - 381	2 - 232		
2691	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442		
856519	917920	690515	887877	743406	784261	790072	747784	791355	890888	721530	196188		
	HLWBX42	HLWBW29	HLWBT09	HLWBS62	HLWBR85	HLWBQ91	HLWBJ65	нг. МВН92	HLWBG78	HLWBF48	HLWBE74		

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L0747: 2, H0553: 1	and L0794: 1.					H0553: 1 and L0755:			H0553: 1 and L0749:	1.		H0553: 1 and L0759:	1.					_	-	H0553: 1	AR089: 4, AR061: 2	L0539: 1 and H0553:	1.	H0553: 1 and L0745:	AR054: 55, AR050:	51, AR051: 48, AR089:	4, AR061: 2	1 .cccon [
Pro-2 to Val-21,	Asp-23 to Val-30,	Gly-36 to Leu-41,	Met-49 to Gly-55,	Thr-72 to Lys-78,	Ile-92 to Asp-97.	Lys-6 to Leu-12,	His-39 to Leu-57,	Ile-61 to Asp-66.	Lys-6 to Asn-13,	Gly-31 to Gly-36,	Glu-91 to Ser-99.	Lys-11 to Arg-23,	Cys-25 to Cys-31,	Pro-33 to Tyr-38,	Arg-46 to Ile-60.	Leu-17 to Gln-23,	Gln-38 to Phe-44,	Gln-65 to Gln-72,	Thr-80 to Tyr-86.	His-27 to Ile-34.	Tyr-46 to His-52.							
5130						5131			5132			5133				5379				5134	5135			5136	5137			
2 - 412						3 - 347			2 - 322			1 - 273				115 - 462				74 - 235	3 - 290			35 - 214	124 - 2			
2443						2444			2445			2446				2692				2447	2448			2449	2450			
869611						720397			931387			785395				941397				625419	959139			751503	948928			
HLWBC21						HLWBA80			HLWBA27			HLWAW86								HLWAS09	HLWAR08			HLWAO67	HLWAL31			_

			_																							
	600281,															000										
	20q12-q13																									
	H0553: 1 and L0439:	H0553: 1 and L0758:	, i				H0553: 1 and L0439:		H0553: 1		H0553: 1, L0754: 1	and L0755: 1.	H0553: 1	H0553: 1 and L0663:		L0794: 2, L0766: 1,	L0665: 1 and H0689: 1.				L0777: 2, H0545: 1	and L0754: 1.		H0545: 1 and L0756:	1.	H0545: 1 and L0599:
Arg-9 to Pro-15, Leu-114 to Val-120, Car 147 to Car 156		Arg-1 to Ser-6,	Phe-13 to Gln-24,	Glu-31 to Arg-40,	Ser-48 to Asn-56,	Asp-69 to Val-75.	Pro-21 to Gln-27,	Glu-53 to Ser-60.	His-1 to Ala-7,	Thr-34 to Leu-39.	Arg-1 to Arg-10,		Asn-42 to Lys-48.	Arg-2 to Phe-7,	Thr-68 to Asn-73.	Gly-11 to Ile-17,	Asn-24 to Ser-31,	Gln-47 to Ala-64,	Pro-66 to Ala-72,	Gly-77 to Gly-84.	Leu-2 to Arg-11,		Lys-54 to His-64.	Ser-48 to Lys-57.		Tyr-47 to Ser-58.
5380	5138	5139					5140		5141		5142		5143	5144		. 5145	_				5146			5147		5148
23 - 511	41 - 214	156 - 449					444 - 133		2 - 166		190 - 468		49 - 219	13 - 252		1 - 324					2 - 286			158 - 328		96 - 380
2693	2451	2452					2453		2454		2455		2456	2457		2458					2459			2460		2461
971312	666281	919714					789030		734655		702317		699158	919725		965175					895899			772101		964464
	HLWAJ18	HLWAF02					HLWAE09		HLWAD57		HLWAD33		HLWAD32	HLWAD02		HKZAH11 965175					HJMBX19			HJMBS77		HJMBS10

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					141750, 141800, 141800,	141800, 141800,	141850,	141850,	141850,	141850,	156850,	186380,	600140,	600273,	601313, 601785				
					16p13.3														
1.	H0545: 1 and L0747:	H0545: 1 and L0763:	H0545: 1 and L0646: 1.	H0545: 1, L0748: 1 and L0740: 1.	H0545: 1 and L0794: 1.											L0588: 2, H0545: 1	and L0603: 1.		
	Thr-17 to Gly-22, Gln-69 to Glu-74.	Arg-5 to Thr-16.		Asn-74 to Pro-80.														Fro-49 to Ala-58, Thr-70 to I.vs-78	1111-10 to 2010 10.
	5149	5150	5151	5152	5153									_		5154			
	156 - 557	218 - 436	47 - 199	373 - 122	187 - 501											1 - 234			1
	2462	2463	2464	2465	2466	·	•									2467			
	788834	919737	929114	828110	961623											785410			
	нлмв090	HJMBN02	HJMB193	HIMAV93	HJMAU07	,										HJMAQ86			

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																						104770,	107670,	110700,	145001,
		·																				1912-1921.2			
L0163: 2, H0545: 1 and L0754: 1.	H0545: 1 and L0740:			H0545: 1	AR061: 4, AR089: 2	H0046: 1 and L0758:	H0046: 1, L0439: 1,	L0740: 1 and L0591: 1.	H0046: 1 and L0731:		L0748: 2, H0046: 1	and L0766: 1.	H0046: 1	H0046: 1	H0046: 1	H0046: 1, L0748: 1	and L0581: 1.	H0046: 1 and L0439:	 H0046: 1	L0738: 1, H0046: 1,	L0527: 1 and L0599: 1.	L0747: 2 and H0046:			
	Arg-1 to Ser-15,	Ser-18 to Ser-33,	Glu-42 to Arg-51.	Gly-15 to Glu-21.					Pro-39 to Arg-44,	Ala-89 to Glu-103.				Asn-1 to Leu-13.		Ala-39 to Cys-46.	•		Val-19 to Leu-35.	Cys-11 to Pro-19,	Asn-28 to Leu-35.	Val-20 to Gly-26,	Asn-62 to Arg-68.		
5155	5156			5157	5158		5159		5160		5161		5162	5163	5164	5165		5166	5167	5168		5169			
130 - 477	78 - 452			195 - 356	3-416		109 - 306		13 - 321		218 - 415		2 - 247	2 - 166	70 - 204	250 - 420		181 - 336	3 - 113	2 - 352		113 - 343			
2468	2469			2470	2471		2472		2473		2474		2475	2476	2477	2478		2479	2480	2481		2482			
621219	811222			742612	792606		752542		661559		921649		529467	529587	529589	742157		677490	533536	961038		929285			
HJMAQ14 657579	HJMAJ91			HJMAI62	HETLF29		HETJY68		HETID12		HETHO01		HETHB18	HETFF68	HETFF43	HETDU61		HETDA25	HETCO27	HETCH01		HETBM55			

146760, 146790, 159001,	191315, 600897.	601412,	601652,	601863, 602491	180020,	600320 , 600883														113721,
					6q25							-							2pter-p25.1	17p13.3
					H0046: 1 and L0731:	1.	L0740: 3 and H0046: 1.	H0046: 1 and L0777:	I	H0046: 1 and L0748:	1.	L0747: 2, H0046: 1 and L0748: 1.	H0544: 1, L0775: 1,	L0776: 1 and L0758: 1.	H0544: 1 and L0731:	1	H0544: 1	H0544: 1	H0544: 1	H0544: 1
					Glu-31 to Gly-37,	Leu-42 to Gln-49.	Ser-73 to Lys-91.	Pro-17 to Ser-23.		Ser-22 to Lys-31,	1111-32 to Olu-47.		Ser-54 to Ala-59,	Ser-64 to Phe-69, Arg-79 to Thr-87.			Thr-7 to Gly-14.			Ser-1 to Pro-23, Pro-35 to Asn-45
					5170		5171	5172		5173		5174	5175		5176		5177	5178	5179	5180
					124 - 447		237 - 548	12 - 188		14 - 187		575 - 757	375 - 659		252 - 10		463 - 245	29 - 142	1 - 276	2 - 295
					2483		2484	2485		2486		2487	2488		2489		2490	2491	2492	2493
					869596		790499	778539		754155		660831	924849		773528		855578	739877	827915	427813
	,				HETBE61		HETAS91	HETAS81		HETAS62		HETAJ14	HEQCC01		HEQBT78		HEQBP18	HEQBI09	HEQBG85	нвовсео

		,											
600059, . 601545													
	H0544: 1	H0544: 1	H0544: 1 and L0599:	H0544: 1 and L0752: 1.	H0544: 1, L0439: 1 and L0754: 1.	L0439: 2 and H0544: 1.	L0731: 5 and H0544: 1.	L0747: 3 and H0544: 1.	L0777: 4, H0150: 1 and L0757: 1.	H0150: 1 and L0747: 1.	L0754: 2 and H0150: 1.	H0150: 1 and L0743:	L0744: 2, L0731: 2 and
Cys-53 to Arg-70.	Asp-13 to Lys-20, Thr-43 to Ala-49.	Glu-18 to Pro-27, Asp-58 to Asn-65.	Phe-2 to Gly-7.				Trp-1 to Ser-10.	Lys-6 to Arg-11, Thr-22 to Gly-34.	Ser-1 to Gin-9, Ser-16 to Cys-22, Ser-33 to Ser-38, Ser-58 to Trp-66.	Arg-10 to Ser-18, Leu-37 to Arg-48.			
	5181	5182	5183	5184	5185	5186	5187	5188	5189	5190	5191	5192	5193
	101 - 265	101 - 451	97 - 402	50 - 160	2 - 298	3 - 200	82 - 555	340 - 519	72 - 305	146 - 349	1 - 240	29 - 193	2 - 172
	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506
	772860	760305	916321	739220	793250	729594	914044	792255	941270	952996	783362	825778	535627
	неове78	неове71	HEQAZ01	HEQAM59	HEQAK94	HEQAF54	HEQAD73	HEQAA93	HEPCB04	HEPBO92	HEPBO85	HEPAY26	HEPAX40

	125852,	126452,	126452,	141900,	141900,	141900,	141900,	141900,	141900,	142000,	142000,	142200,	142250,	142270,	176730,	176730,	176730,	190020,	191290,	192500,	192500,	194071,	194071,	204500	600856,	601680,	602631,	602631	
	11p15.5		_				•••								·											-			
H0150: 1.	L0766: 3, L0776: 2,	H0150: 1, L0371: 1,	L0761: 1, L0764: 1,	L0662: 1, L0655: 1,	L0748: 1, L0754: 1,	L0749: 1 and L0779: 1.																							L0748: 2, L0756: 2,
	5194																									-			5195
	1 - 330																					 / 2 - 1							245 - 511
	2507																								_				2508
	99299											•							•										707533
	HEPAX16																												HEPAQ35

L0777: 2, H0150: 1, L0789: 1, L0666: 1 and L0758: 1.	H0150: 1 and L0777: 1.	H0150: 1 and L0780: 1.	H0150: 1 and L0763: 1.	H0150: 1 and L0743: 1.	H0150: 1, L0779: 1 and L0758: 1.	H0150: 1 and L0743: 1.	H0150: 1 and L0522: 1.	H0550: 1 and L0646: 1.	H0550: 1 and L0745: 1.	H0550: 1 and L0605: 1.	H0550: 1 and L0766: 1.
	Pro-17 to Val-26, His-34 to Lys-41, Pro-54 to Phe-66.	Lys-15 to Leu-29, Lys-45 to Glu-55, Lys-82 to Lys-89.	Leu-42 to Gly-54.	His-1 to Ser-10, Pro-22 to Gly-38, Asn-55 to Ser-60.	Thr-1 to Arg-16, Ala-45 to Gln-50, Pro-63 to Ala-68, Ala-80 to Asp-93.	Gly-38 to Asp-56.	Leu-15 to Lys-24.		Val-6 to Glu-11, Phe-22 to Cys-29.		Lys-18 to Glu-23, Gln-60 to Ala-67.
	5196	5197	5198	5199	5200	5201	5202	5203	5204	5205	5206
	369 - 623	223 - 489	4 - 177	55 - 243	71 - 367	174 - 353	3 - 107	2 - 304	95 - 352	217 - 372	3 - 230
	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519
	703336	932893	933039	657440	933091	509130	921389	922550	751233	912296	927260
·	HEPAP34	HEPAN05	HEPAK04	HEPAJ14	HEPAJ04	HEPAE58	HEPAE02	HEGBC03	HEGBB67	HEGBA01	HEGAX04

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300067, 300067, 300121, 300121, 301201, 301835,						152200, 167000, 180020, 600320, 600883, 602544		
Xq22.3						6q25.2-q27		
H0550: 1, L0748: 1 and L0749: 1.	H0550: 1, L0745: 1 and L0731: 1.	L0731: 2, L0597: 2, H0550: 1, L0783: 1 and L0439: 1.	H0550: 1 and L0758:	H0549: 1 and L0748:	AR051: 4, AR050: 2, AR054: 2 H0549: 1	H0549: 1, L0589: 1 and L0366: 1.	H0549: 1 and L0594:	L0794: 6, L0806: 2, L0752: 2, H0549: 1, L0796: 1, L0766: 1,
	Lys-5 to Gly-11.	Pro-7 to Val-13.	Ser-7 to Cys-21, Ile-59 to Gly-64.	Asn-1 to Lys-14.	Arg-65 to Arg-72.	Asn-45 to Thr-50, Pro-52 to Arg-57.	Leu-32 to Leu-38.	
5207	5208	5209	5210	5211	5212	5213	5214	5215
1 - 273	153 - 359	344 - 511	2 - 196	222 - 383	2 - 328	222 - 398	249 - 413	101 - 784
2520	2521	2522	2523	2524	2525	2526	2527	2528
789940	731654	92656	918992	782706	912065	710655	738892	662129
HEGAQ91	HEGAL55	HEGAJ08	HEGAC02	HEEAY84	HEEAX09	HEEAW40	HEEAP59	HEEAM25

												120110, 121014, 601666,
												6q21
L0380: 1, L0803: 1, L0804: 1, L0807: 1, L0789: 1, L0663: 1, L0755: 1, L0596: 1 and L0485: 1.	H0549: 1 and L0599:	H0549: 1 and L0748:	H0549: 1 and L0601:	H0549: 1 and L0747: 1.	H0549: 1 and L0605:	AR050: 66, AR054:	64, AKU51: 63, AKU89: 13, AR061: 3 H0549: 1		H0549: 1 and L0756: 1.	H0549: 1 and L0748: 1.	H0369: 1 and L0740: 1.	H0369: 1 and L0745: I.
<u> </u>	1	Val-21 to Gly-26, Leu-29 to Gly-38.	Pro-3 to Phe-9, Ser-17 to Ala-24, Val-52 to Lys-62.	Ser-45 to Ser-50, Tyr-103 to Phe-110.	Glu-61 to Val-77, Phe-81 to Ser-88.		Asp-65 to Glu-//.			Val-15 to Ala-23, Pro-30 to Ser-35.	Val-22 to Gly-29.	Lys-80 to Lys-86.
	5216	5217	5218	5219	5220	5221		5381	5222	5223	5224	5225
	114 - 344	16 - 213	219 - 404	15 - 344	1 - 423	266 - 36	2	429 - 295	1 - 195	128 - 310	63 - 182	53 - 364
	2529	2530	2531	2532	2533	2534		2694	2535	2536	2537	2538
	794257	769950	734488	661827	930810	724929		887048	470886	710668	684734	911255
	НЕЕАН94	HEEAH76	HEEAH57	HEEAH16	HEEAG51	HEEAG12			HEEAD13	HEEAB40	HEAAX26	HEAAU20

602772																							
	H0369: 1	H0369: 1 and L0769:	H0369: 1 and L0748: 1.	L0539: 1, H0369: 1 and L0748: 1.	H0369: 1 and L0589: 1.	H0369: 1						L0731: 9, L0754: 3 and	H0369: 1.	H0369: 1	L0626: 1, L0775: 1,	L0776: 1 and H0670: 1.	L0769: 1, L0665: 1 and	H0670: 1.			H0670: 1 and L0758:	1.	L0779: 3, L0758: 3 and H0670: 1.
		Gly-1 to Ser-6.		Thr-3 to Ala-10, Glu-30 to Arg-38.	Leu-23 to His-28.		Arg-43 to Ser-49,	Glu-55 to Ser-61,	Pro-70 to Arg-75,	Cys-91 to Gly-103.	Arg-45 to Gly-52.	Glu-24 to Tyr-31.			Pro-1 to Arg-14.		Pro-15 to Glu-21,	Ala-43 to Glu-58,	Leu-96 to Glu-101,	Ala-111 to Ala-119.	Thr-29 to Arg-43.		
	5226	5227	5228	5229	5230	5231	5382				5383	5232		5233	5234		5235				5236		5237
	20 - 220	353 - 535	235 - 336	321 - 563	2 - 136	962 - 309	1539 - 1913				316 - 504	598 - 792		438 - 740	2 - 142		158 - 628				185 - 313		79 - 240
	2539	2540	2541	2542	2543	2544	2695				5696	2545		2546	2547		2548				2549		2550
	973284	883939	842032	950736	770200	896892	904209				906483	714041		844361	629876		933473				951645		951655
	HEAAR47	HEAAR21	HEAAN43	HEAAM71	HEAAL76	HEAAG84						HEAAG42		HEAAB66	HCORB05		HCOPM06				HCOPI07		HCOPF07

										•								·										
H0670: 1, L0731: 1	and L0759: 1.	L0517: 1, L0438: 1,	H0670: 1 and L0439: 1.	L0517: 2, L0756: 2,	L0803: 1, L0776: 1,	L0809: 1, L0663: 1,	H0670: 1, L0755: 1 and	L0759: 1.	AR089: 1, AR061: 1	H0670: 1							•			H0484: 1 and L0743:				H0484: 1, L0617: 1,	L0772: 1, L0751: 1 and	L0752: 1.	AR061: 1, AR089: 1	H0484: 1 and L0589:
Pro-13 to Ser-19,	Asp-27 to Thr-35.	Asn-7 to Val-13.		Asp-5 to Ala-11,	Trp-24 to Phe-31,	Arg-44 to Trp-50.			Gln-19 to Asp-38,	Pro-46 to Thr-55,	Leu-96 to Gly-104,	Ala-114 to Ala-119,	Gln-125 to Trp-131,	Pro-133 to Pro-141,	Phe-144 to Glu-150,	Glu-180 to Val-185,	Glu-192 to Glu-197,	Glu-254 to Leu-262,	Met-272 to Ser-280.	Cys-6 to Lys-21,	Ser-53 to Ile-65,	Asn-68 to Gln-80,	Arg-106 to Ala-114.	Arg-1 to Lys-12,	Gly-57 to Gly-62,	Pro-74 to Asp-80.	Lys-1 to Ser-13.	
5238		5239		5240					5241											5242				5243			5244	
221 - 493		148 - 306		474 - 217					1 - 840											13 - 357				1 - 741			122 - 325	
2551		2552		2553					2554				•							2555				2556			2557	
951693		917577		971637					925952										,	908495				069256			862478	
HCOOF07		HCONP02		HCONM33					HCOMM05											HCHQA48				нснох63			HCHNW48	

H0484: 1 and L0749: 1.	L0757: 2 and H0484:	H0484: 1 and L0439: 1.	AR051: 32, AR054: 29, AR050: 28 H0484: 1	H0484: 1 and L0792: 1.	L0749: 3 and H0483: 1.	H0483: 1 and L0764: 1.	L0748: 3, L0596: 2, H0483: 1, L0439: 1 and L0749: 1.	H0483: 1	H0483: 1
	Leu-8 to Val-20, Arg-25 to Arg-35, Ala-38 to Trp-46, Phe-69 to Tyr-75, Ser-96 to Trn-104	Ala-1 to Gly-8, Arg-16 to Ser-21, Ser-35 to Pro-45, Ala-61 to Gly-67.		Lys-67 to Ser-79, Ser-89 to Thr-109, Asn-116 to Ser-129, Glu-140 to Lys-147, Ser-161 to Lys-172.	Gly-1 to Trp-6, Gly-74 to Trp-80.		Phe-32 to Ala-37.		Gly-4 to Lys-10, Gln-36 to Glu-41, Arg-61 to Arg-76.
5245	5246	5247	5248	5249	. 5250	5251	5252	5253	5254
2 - 349	97 - 408	3 - 218	3 - 248	52 - 591	248 - 499	251 - 502	214 - 462	11 - 193	11 - 241
2558	2559	2560	2561	2562	2563	2564	2565	2566	2567
850340	586996	786765	800129	935298	952957	869084	686431	773428	682308
HCHMX82 850340	HCHMW18	HCHMJ89	нсницье	HCHMI15	HCHCI07	нснсн68	нснс628	HCHCE78	нснво27

107741, 113900, 122720, 122720, 126340, 160900, 164731, 173850, 207750, 248600, 258501														
19q13.2														
·		1	1	1	L0752: 1 and S0398: 1.	L0777: 1, L0758: 1,	1	L0439: 1 and S0398: 1.	1	1	1	1	1	1 and S0398: 1.
H0483: 1	H0483:	H0483: 1	H0483:	H0483:	L0752:	L0777:	\$0398:	L0439:	S0398: 1	S0398: 1	S0398:	S0398: 1	S0398: 1	L0587: 1
Gly-1 to Ser-13.	Gly-4 to Lys-10, Gln-36 to Glu-41.	Lys-1 to Lys-21.		Ser-26 to Thr-44.	Gly-12 to Cys-27.	Glu-8 to Met-22, Pro-104 to Pro-109	Glu-12 to Leu-20.	Gln-9 to Val-17, Phe-38 to Glu-45					Gly-12 to His-19.	Gly-13 to Asn-22.
5255	5256	5257	5258	5259	5260	5261	5262	5263	5264	5265	5266	5267	5268	5269
1 - 177	13 - 153	2 - 148	1 - 75	3 - 212	86 - 286	147 - 473	160 - 330	47 - 283	116 - 271	2 - 241	28 - 183	185 - 289	128 - 244	2 - 202
2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582
625420	681404	743411	487985	726081	796196	863374	785134	677627	675490	672815	934663	789551	713300	711996
HCHBN09 625420	нснвм26	HCHAI62	HCHAH04	HCHAG52	HCDMF96	HCDME32	HCDMC86	HCDMC25	HCDMC23		HCDMC06	HCDMB91	HCDMB42	HCDMB41

																•		
S0398: 1	AR050: 93, AR054: 62, AR051: 57 S0398: 1	L0753: 1 and S0398: 1.	S0398: 1	L0438: 1, L0439: 1 and S0398: 1.	H0661: 1, L0805: 1	and L0776: 1.	H0661: 1 and L0740: 1.	H0661: 1 and L0603:	H0661: 1, L0664: 1,	L0754: 1 and L0749: 1.		S0190: 1	L0771: 2 and S0190: 1.	S0190: 1				L0741: 3 and S0188: 1.
	Pro-7 to Gly-24.	Gly-38 to Gly-51.	Cys-20 to His-27, Glu-35 to Lys-54.			Gly-35 to Thr-41, Thr-53 to Gln-75, Ser-92 to Gly-98.		Glu-22 to Glu-49.	Ala-1 to Asn-9,	Thr-24 to Asn-29,	Gly-43 to Arg-53,	Gln-7 to Lvs-14.		Val-8 to Leu-14,	Pro-22 to Arg-31,	Thr-62 to Lys-68,	Arg-76 to Cys-82, Trp-85 to His-91.	
5270	5271	5272	5273	5274	5275		5276	5277	5278		•	5279	5280	5281				5282
23 - 148	418 - 627	115 - 267	88 - 252	3 - 92	3 - 401		230 - 358	371 - 138	207 - 653		•	2 - 79	40 - 291	59 - 427				2 - 244
2583	2584	2585	2586	2587	2588		2589	2590	2591			2592	2593	2594				2595
682389	968918	958542	923316	669201	922388		951788	961718	965394			926407	920249	699335				764479
HCDMB27	HCDMB12	HCDMB08	HCDMB03	HCDMA20	HCBND03		HCBMZ07	HCBMY10	HCBMG11			HBZSK04	HBZSG02	HBZSD32				HBZAJ73

										-												
							,															
S0188: 1 and L0747: 1.	S0188: 1 and L0605: 1.	S0188: 1	S0188: 1 and L0587: 1.	L0774: 3, L0775: 1,	L0809: 1, S0188: 1 and	L0758: 1.	H0188: 1 and L0751:	L0774: 2, L0741: 2,	L0439: 2, L0411: 1 and	H0188: 1.	H0188: 1, L0663: 1	and L0748: 1.	H0188: 1 and L0526: 1.	H0188: 1, L0769: 1	and L0/53: 1.	H0188: 1 and L0748:	H0188: 1		L0439: 3 and H0188:	H0188: 1 and L0748: 1.	H0188: 1	H0188: 1
Gly-38 to Ser-44.	٠		Lys-26 to His-31.	Pro-1 to Gln-15,	Gln-38 to Asn-45,	Pro-57 to Thr-65.	Arg-54 to Arg-60.	Glu-17 to Tyr-22.					Trp-18 to Gly-23, Ser-25 to Met-31,								Asp-30 to Trp-36, Ser-39 to Trp-44.	Arg-10 to Glu-32.
5283	5284	5285	5286	5287			5288	5289			5290		5291	5292		5293	5294	5384	5295	5296	5297	5298
198 - 443	545 - 808	3 - 203	240 - 362	160 - 414			222 - 473	3-155			245 - 409		63 - 215	2 - 298		50 - 256	143 - 3	1 - 186	372 - 79	87 - 236	3-152	1-318
2596	2597	2598	2599	2600			2601	2602			2603		2604	2605		2606	2607	2697	2608	2609	2610	2611
681879	847621	847620	660348	095656			960288	430360			703113		510/06	960664		712676	600905	847732	868924	764716	286797	525831
HBZAJ26	HBZAI39	HBZAI14	HBZAB15				HBNBQ50	HBNBO30			HBNBL29		HBNBJ29	HBNB106		HBNBB41	HBNBB27		HBNBB09	HBNAW73	HBNAC74	HBNAC71

																											•
H0188: 1	H0188: 1 and L0591:	1.	H0188: 1	H0188: 1	H0188: 1		H0188: 1	H0188: 1	AR050: 173, AR051:	169, AR054: 143,	AR089: 46, AR061: 9	H0617: 1	H0617: 1, L0766: 1	and L0788: 1.	AR054: 7, AR051: 2,	AR050: 1	H0617: 1, L0769: 1,	L0637: 1 and L0789: 1.	H0617: 1, L0767: 1,	L0775: 1 and L0779: 1.	L0779: 2, L0752: 2,	H0617: 1 and L0794: 1.	H0617: 1, L0774: 1,	L0747: 1 and L0752: 1.	H0617: 1 and L0750:	1.	L0758: 2 and H0617:
					Leu-2 to Gln-11,	Lys-35 to Lys-48.		Pro-24 to Ala-37.	His-8 to Gly-18,		Lys-126 to Trp-131,	Glu-133 to Gly-141.	Gly-14 to Val-21.		Pro-16 to Gly-38,	Arg-50 to Arg-58,	Asp-65 to Asn-81.		Thr-10 to Gly-16.		Ser-73 to Lys-78,	Pro-93 to Gly-100.			Pro-46 to Gly-55,	Arg-79 to Cys-89.	Ser-28 to Trp-36.
5299	2300		5301	5302	2303		. 5304	2305	9088				2307		8085				6085		5310		1185		5312		5313
150 - 308	1 - 120		1-111	34 - 183	3 - 146		92 - 8	2 - 199	14 - 556				71 - 325		2 - 448				1 - 570		55 - 354		28 - 507		3 - 272		104 - 307
2612	2613		2614	2615	2616		2617	2618	2619				2620		2621				2622		2623		2624		2625		2626
721983	714263		526549	525832	525834		525833	921187	903653				965121		886650				848179		926973		954374		754392		773043
HBNAC48	HBNAC42		HBNAC32	HBNAC28	HBNAC25		HBNAC09	HBNAC02	HBGTT76				HBGTE11		HBGQS88				HBGNL85		HBGND04		HBGMT82		HBGMS69		HBGM078

						102200,	106100,	131100,	31100,	31100,	33780,	147050,	53700,	161015,	64009,	168461,	168461,	168461,	80721,	180840,	191181,	193235,
						1	<u></u> .													•		
						11913																
AR050: 297, AR051: 237, AR054: 211 H0617: 1	L0748: 2, H0606: 1 and L0593: 1.	H0606: 1 and L0777: 1.	L0439: 6, L0776: 2, L0777: 2, H0181: 1,	L0762: 1 and L0809: 1.	AR089: 0, AR061: 0 H0181: 1	AR089: 33, AR061: 29 11q13	H0181: 1															
Lys-3 to Leu-13, Pro-70 to Ser-78.		Gly-18 to Gly-24, Gly-31 to Ser-38,	1115-77 to 1111-02:		Leu-92 to Phe-98.							-										
5314	5315	5316	5317		5318	5319																
37 - 363	358 - 140	267 - 473	3 - 374		2 - 355	2-277												-				
2627	2628	2629	2630		2631	2632																
880276	914032	727748	702854		861602	832888																
HBGMG81 880276	HBGFS88	HBGFG53	HBGDH33		HBGDF39	HBGDA74																

		_		_									
209901, 232600, 259700, 259770, 600045, 600319, 600528,													
·	H0181: 1	H0181: 1	H0181: 1	H0181: 1	H0181: 1	H0181: 1 and L0741: 1.	AR061: 1, AR089: 1	H0663: 1 and L0783:	L0779: 3, H0663: 1, L0757: 1 and L0758: 1.	H0663: 1 and L0766:	H0664: 1 and L0758: 1.	L0754: 2, H0664: 1 and L0748: 1.	H0294: 1 and L0777: 1.
	Lys-8 to Ala-14.		Leu-8 to Gly-19, Len-31 to Cys-36	Ser-1 to Glu-10.		Ser-11 to Trp-17, Pro-19 to Thr-28.	Arg-1 to Arg-8.	Glu-29 to Arg-37.	Ala-26 to Val-32.	Lys-25 to Asn-34, Thr-92 to Gly-98.	Glu-14 to Ala-30, Ile-46 to Lys-53.	Arg-5 to Ser-15.	Cys-1 to Arg-15, Lys-28 to Asp-36,
	5320	5321	5322	5323	5324	5325	5326		5327	5328	5329	5330	5331
	1-57	2 - 157	120 - 257	1-150	1 - 69	1 - 342	2 - 403		135 - 356	194 - 514	349 - 507	3 - 137	31 - 402
	2633	2634	2635	2636	2637	2638	2639		2640	2641	2642	2643	2644
	802090	588263	522424	525837	971466	773930	932817		927520	922493	917981	951898	764851
	HBGBG69	HBGBG67	HBGBG52	HBGBG38	HBGBE12	HBGBB78	HBCPV80		HBCPO75	НВСРК03	HBCJP02	HBCJG07	HAUCC58

		H0294: 1 and L0748: 1.	H0294: 1	H0294: 1 and L0608:	L0794: 2, L0599: 2, H0295: 1, L0763: 1, L0800: 1 and L0515: 1.	H0295: 1 and L0780: 1.	L0809: 2, H0685: 1, L0776: 1 and L0780: 1.
Thr-64 to Leu-74,	Cys-99 to Arg-107, Lys-117 to Arg-124.	Ser-24 to Trp-30, Glu-38 to Arg-50.				Arg-25 to Ser-50.	Leu-30 to Lys-38, Trp-49 to Ala-58, Gly-75 to Pro-80.
		5332	5333	5334	5335	5336	5337
		119 - 349	25 - 132	320 - 427	1 - 303	198 - 425	2 - 280
		2645	2646	2647	2648	2649	2650
		8217959	518847	685374	678235	658856	955638
		HAUAW51 577959	HAUAS89 518847	HAUAQ28 685374	HAQCF25 678235	HAQCD07 958959	HACMR08 955638

[066] The first column in Table 1A provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1A. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods known in the art and/or as described elsewhere herein.

- The second column in Table 1A provides a unique "Contig ID" identification for each contig sequence. The third column provides the "SEQ ID NO:X" identifier for each of the reproductive system associated contig polynucleotide sequences disclosed in Table 1A. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1A, column 5, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.
- [068] The fifth column in Table 1A provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 4. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.
- [069] Column 6 in Table 1A lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In some embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table 1A. It will be appreciated that depending on

the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

[070] Column 7 in Table 1A provides an expression profile and library code: count for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1A, which can routinely be combined with the information provided in Table 4 and used to determine the normal or diseased tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array, cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ³³P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. The sequences disclosed herein have been determined to be predominantly expressed in reproductive

system tissues, including normal and diseased reproductive system tissues (See Table 1A, column 7 and Table 4).

- [071] Column 8 in Table 1A provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.
- [072] A modified version of the computer program BLASTN (Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1A under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.
- [073] Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIMTM (supra). If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 9, Table 1A, labeled "OMIM Disease Reference(s)". Table 5 is a key to the OMIM reference identification

numbers (column 1), and provides a description of the associated disease in Column 2.

TABLE 1B

Clone ID	SEQ ID	CONTIG	BAC ID: A	SEQ ID	EXON
NO:Z	NO:X	ID:	·	NO:B	From-To
HAOSH55	14	952380	AL353194	5385	1-964
					1250-1399
					2650-2905
					3588-3668
	,				3971-4987
ļ				}	5854-5963
					7336-7775
					7870-8256
	}				8419-8895
					9000-9339
HAOSH55	14	952380	AL353194	5386	1-90
HAQAK73	15	764671	AC023906	5387	1-739
HAQAK73	15	764671	AC023906	5388	1-845
HAQBS37	20	847519	AP002519	5389	1-168
					683-777
					1538-3043
ļ					3578-4180
					5564-5793
					6266-6409
1	1			Ì	6412-6738 7035-7451
HAUBD69	21	529711	AL359674	5390	1-138
HAUBD69	21	529711	AL359674	5391	1-380
HAUBU10	22	968339	AC027538	5392	1-463
HAUBU10	22	968339	AC010770	5393	1-463
HAUBU10	22	968339	AC027538	5394	1-288
HAUBU10	22	968339	AC010770	5395	1-288
HBCQS93	27	930682	AL109945	5396	1-310
1200000	12'	750002	122107713		1220-1839
HBCQS93	27 .	930682	AC022307	5397	1-310
12200255	-				1220-1839
]	2206-2683
)		ļ			2691-2788
					3337-3381
HBCQS93	27	930682	AL109945	5398	1-131
HBGBF56	29	957870	AL031963	5399	1-249
HBGBF56	29	957870	AL133351	5400	1-249
HBGBF56	29	957870	AL031963	5401	1-249
HBGBF56	29	957870	AL031963	5402	1-429
HBGBF56	29	957870	AL133351	5403	1-580
			}	}	1364-1792
					2134-2229
					3072-3565

					3973-4080
HBGBF56	29	957870	AL031963	5404	1-349
HBGBF56	29	957870	AL133351	5405	1-349
HBGBF56	29	957870	AL031963	5406	1-349
HBGBG42	30	922396	AL096773	5407	1-518
					1341-1514
		1			3365-3956
					4169-4282
					4430-4892
					6254-7763
HBGBG42	30	922396	AL096773	5408	1-114
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HODCO09 366 573202 AC012425 6152 1-3 HODCO09 366 573202 AL132661 6153 1-4 HODCO09 366 573202 AC044855 6154 1-3 HODCO09 366 573202 AC069378 6155 1-3 HODCO09 366 573202 AC012425 6156 1-4 HODCO09 366 573202 AC012425 6156 1-4 HODCO09 366 573202 AC012425 6156 1-4 HODCO09 366 573202 AL132661 6157 1-3 HODCO09 366 573202 AC044855 6158 1-4 HODCO09 366 573202 AC044855 6158 1-4 HODCO09 368 573200 AC006407 6159 1-3 HODCO82 368 573195 AC009834 6160 1-5 HODCO82 368 573195 AC009834 6161 1-4 HODCO82 368 573195 AC009834 6162 1-3 HODCO99 369 507249 AC022080 6162 1-3 HODCO99 369 507249 AC022080 6162 1-3 HODCO99 369 507249 AC068293 6163 1-3	HODCO09	366	573202	AC044855	6150	1-412
HODCO09 366 573202 AL132661 6153 1-4 HODCO09 366 573202 AC044855 6154 1-3 HODCO09 366 573202 AC069378 6155 1-3 HODCO09 366 573202 AC012425 6156 1-4 HODCO09 366 573202 AL132661 6157 1-3 HODCO09 366 573202 AL32661 6157 1-3 HODCO09 366 573202 AC044855 6158 1-4 HODCO09 366 573202 AC044855 6158 1-4 HODCO46 367 573200 AC006407 6159 1-3 HODCO82 368 573195 AC009834 6160 1-5 4451-45 8243-83 9901-102 10315-104 HODCO82 368 573195 AC009834 6161 1-1 HODCO82 368 573195 AC009834 6161 1-1 16991-171 17690-178 19598-197 19971-201: 21034-215 23395-235 23375-239 24646-247 28056-229: 30554-308 32721-329 34077-371: HODCP69 369 507249 AC022080 6162 1-3: HODCP69 369 507249 AC068293 6163 1-3:	HODCO09	366	573202	AC069378	6151	1-411
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HODCO09 366 573202 AC069378 6155 1-3 HODCO09 366 573202 AC012425 6156 1-4 HODCO09 366 573202 AL132661 6157 1-3 HODCO09 366 573202 AC044855 6158 1-4 HODCO09 366 573200 AC06407 6159 1-3 HODCO82 368 573195 AC009834 6160 1-5 4451-45 8243-83 9901-102 10315-104 HODCO82 368 573195 AC009834 6161 1-7 799-9 3613-37 7543-76 8075-81 8384-85 10749-108 12458-125 14660-147 16991-171 17690-178 19598-197 19971-201 21034-215 23395-235 23775-239 24646-247 28056-282 28749-288 29696-299 30554-308 32721-329 1HODCP69 369 507249 AC022080 6162 1-3 HODCP69 369 507249 AC068293 6163 1-3	HODCO09	366	573202	AC044855	6154	1-338
HODCO99 366 573202 AC012425 6156 1-4 HODCO99 366 573202 AL132661 6157 1-3 HODCO99 366 573202 AC044855 6158 1-4 HODCO46 367 573200 AC006407 6159 1-3 HODCO82 368 573195 AC009834 6160 1-5 HODCO82 368 573195 AC009834 6161 1-5 HODCO82 368 573195 AC009834 6161 1-5 HODCO82 368 573195 AC009834 6161 1-5 HODCO82 368 573195 AC009834 6161 1-5 HODCO82 368 573195 AC009834 6161 1-5 HODCO82 368 573195 AC009834 6161 1-5 HODCO82 368 573195 AC009834 6161 1-5 HODCO82 368 573195 AC009834 6161 1-5 HODCO82 368 573195 AC009834 6161 1-5 HODCO82 368 573195 AC009834 6161 1-5 HODCO82 368 573195 AC009834 6162 1-3 HODCO82 368 573195 AC002080 6162 1-3 HODCO82 369 507249 AC022080 6162 1-3 HODCO83 369 507249 AC068293 6163 1-3	HODCO09	366	573202	AC069378	6155	1-338
HODCO99 366 573202 AL132661 6157 1-3 HODCO99 366 573202 AC044855 6158 1-4 HODCO46 367 573200 AC006407 6159 1-3 HODCO82 368 573195 AC009834 6160 1-5 4451-45 8243-83 9901-102 10315-104 HODCO82 368 573195 AC009834 6161 1-7 799-9 3613-37 7543-76 8075-81 8384-85 10749-108 12458-125 14660-147 16991-171 17690-178 17690-178 19598-197 19971-201: 21034-215 23395-235 23775-2399 24646-247 28056-282: 28749-288: 29696-299: 30554-308 32721-329 34077-371 HODCP69 369 507249 AC022080 6162 1-3: HODCP69 369 507249 AC022080 6162 1-3:	HODCO09	366	573202	AC012425	6156	1-411
HODCO9 366 573202 AC044855 6158 1-4 HODCO46 367 573200 AC006407 6159 1-3 HODCO82 368 573195 AC009834 6160 1-5 4451-45 8243-83 9901-102 10315-104 HODCO82 368 573195 AC009834 6161 1-7 799-9 3613-37 7543-76 8075-81 8384-85 10749-108 12458-125 14660-147 1699-171 17690-178 19598-197 19971-201 21034-215 23395-235 23775-239 24646-247 28056-282 28749-288 29696-299 30554-308 32721-329 34077-371 HODCP69 369 507249 AC022080 6162 1-3 HODCP69 369 507249 AC022080 6162 1-3		366	573202			1-338
HODCO82 368 573195 AC009834 6160 1-5 HODCO82 368 573195 AC009834 6160 1-5 4451-45 8243-83 9901-102 10315-104 HODCO82 368 573195 AC009834 6161 1-7 799-9 3613-37 7543-76 8075-81 8384-85 10749-108 12458-125 14660-147 16991-171 17690-178 19598-197 19971-201: 21034-215 23395-235 23775-239 24646-247 28056-282: 28749-288: 29696-299: 30271-329 302721-329 34077-371: HODCP69 369 507249 AC022080 6162 1-3 HODCP69 369 507249 AC068293 6163 1-3				 	 	1-411
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## HODCO82 368 573195 AC009834 6161 1-3 ## HODCO82 368 573195 AC009834 6161 1-3 ## HODCO82 368 573195 AC009834 6161 1-3 ## HODCO82 368 573195 AC009834 6161 1-3 ## HODCO83 468 573195 AC009834 6161 1-3 ## HODCO84 368 573195 AC009834 6162 1-3 ## HODCO85 369 507249 AC068293 6163 1-3 ## HODCO85 369 507249 AC068293 6163 1-3 ## HODCO98 369 507249 AC06						1-500
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HODCP69 369 507249 AC019255 6164 1-33	HODCP69	369	507249	AC019255	6164	1-333
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HODCU01	372	917270	AL355822	6169	1-1563
HODCU01	372	917270	AL355822	6170	1-132
HODCU01	372	917270	AL355822	6171	1-83
HODCU02	373	920698	AC018633	6172	1-627
HODCU02	373	920698	AC018633	6173	1-648
HODCU02	373	920698	AC018633	6174	1-190
HODCU62	374	524314	AC078826	6175	1-462
HODCU62	374	524314	AC009246	6176	1-463
HODCU62	374	524314	AC078826	6177	1-106
HODCU62	374	524314	AC009246	6178	1-405
HODCV09	375	973487	AC021721	6179	1-603
HODCW17	376	960051	AC023483	6180	1-375
HODCW17	376	960051	AC016092	6181	1-375
HODCW17	376	960051	AC018822	6182	1-375
HODDD20	379	933726	AC023483	6183	1-319
HODDD20	379	933726	AC024636	6184	1-319
HODDD20	379	933726	AC024898	6185	1-319
HODDD20	379	933726	AC023483	6186	1-261
HODDD20	379	933726	AC024636	6187	1-261
HODDD20	379	933726	AC024898	6188	1-261
HODDD41	380	529390	AL357497	6189	1-70
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HODDE28	381	529169	AC008063	6190	1-369
HODDE28	381	529169	AC008063	6191	1-411
HODDE28	381	529169	AC008063	6192	1-106
HODDF51	382	937759	AC012362	6193	1-258
HODDF51	382	937759	AC012362	6194	1-466
HODDG57	383	806204	AC068404	6195	1-659
					762-1460
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HODDN59	389	975437	AL160155	6197	1-630
HODDN59	389	975437	AL136961	6198	1-630
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HODGQ08	478	958237	AC025510	6402	1-509
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HODGQ92	481	894368	AP000751	6405	1-96
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HODGZ06	486	933783	AC007685	6418	1-452
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HODGZ06	486	933783	AC007685	6419	1-160
HODGZ06	486	933783	AC007685	6420	1-2806
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HODGZ10	487	961977	AC064861	6421	1-85
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HODGZ10	487	961977	AC073838	6422	1-86
				1	1147-1688
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HODHD16	489	974924	AC064851	6429	1-42
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TITETTY	1005	724076	AP001152	9720	
HTEHX57	1885	734976	WL001125	8730	1-1702

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					1835-4742
HTEHX57	1885	734976	AC011007	8731	1-1701
HTEHV11	1886	967439	AL021331	8732	1-569
HTEHV11	1886	967439	AL021331	8733	1-690
HTEHS17	1887	664436	AC010255	8734	1-184
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HTEGU55	1890	931017	Z98752	8739	1-415
HTEGC30	1896	690998	AC073079	8740	1-504
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					1083-4020
HTEFO28	1900	685383	AC023123	8743	1-119
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					1442-1755
					1908-2137
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	j				8676-10198
HTEFO28	1900	685383	AC006534	8744	1-119
	•				151-982
					1019-1286
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	ļ				5507-8584
					8676-10198
HTEFO28	1900	685383	AC023123	8745	1-546
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HTEFO28	1900	685383	AC006534	8746	1-230
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					1289-1366
HTEET22	1906	675071	AF238376	8751	1-38
	Ì				1258-1452
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HTEEF25	1907	677513	AC012330	8756	1-344
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					682-2297
HTEEF25	1907	677513	AC008079	8761	1-583
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					4881-5244
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HTEEF25	1907	677513	AC007324	8764	1-582
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	1				5707-5745
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HTEEF25	1907	677513	AC008018	8765	1-582
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TIMETING	1005	655510	4.6006001	10766	5968-6040
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HTEEF25	1907	677513	AC023490	8769	1-603
HTEEF25	1907	677513	AC008079	8770	1-452
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					34936-35276
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HTEEF25	1907	677513	AC007325	8772	1-603
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HTEEB82	 	677513	AC007981	8779	1-488
ITTEED02	1908	780161	AC026140	8780	1-81
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HTEEB82	1908	780161	AL033531	0701	4682-4800
ITTEED62	1908	780101	AL033531	8781	1-81
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HTEEB82	1908	780161	AC026140	9792	4059-4845
HTEEB82	1908	780161	AL033531	8782	1-212
HTEEB82	1908	780161	AL033531 AL033531	8783 8784	1-669
HTEDX39	1909	530201	AC005726	8785	1-212
HTEDX39	1909	530201	AC005726	8786	
HTEDX39	1909	530201	AC005726	8787	1-124
IIIEDAS9	1909	330201	AC003720	0/0/	1-81 754-902
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HTEDX04	1910	927850	AF111169	8788	1-136
1112210		1,2,000	1211109	0.00	1693-1823
}					1913-2092
HTEDX04	1910	927850	AF111169	8789	
					
HTEDX04 HTEDX03 HTEDX03	1910 1911 1911	927850 925353 925353	AF111169 AC005300 AC006946	8789 8790 8791	2493-2707 4607-4680 1-347 1-202 1-202

HTEDW96						
HTEDW96						1-168
HTEDW96	HTEDW96	1912	881958	AC017028	8793	ł .
HTEDW59						786-1004
HTEDW59 1913 530448 AC025868 8796 1-264 HTEDV86 1914 785818 AL356801 8797 1-763 HTEDV86 1914 785818 AL356801 8798 1-142 HTEDO75 1918 767024 AL049541 8799 1-910 HTEDJ92 1920 522827 AL390815 8800 1-295 HTEDI01 1923 961028 AC019205 8801 1-224 HTEDH30 1927 522936 AL049697 8802 1-57 1807-1921 2559-2625 HTEDH30 1927 522936 AL049697 8803 1-365 381-1034 HTEDH17 1928 522938 AC026124 8804 1-413 HTEDH17 1928 522938 AC012597 8805 1-413 HTEDH06 1929 869427 AC006251 8806 767-1512 1639-2023 2398-2655 2926-2990 3300-3357 4357-4395 5163-5275 5927-6333 6945-7074 7156-7444 HTEDH06 1929 869427 AC006251 8807 1-163 460-673 787-888 4433-4791 6955-7223 7246-7642 11004-11548 12185-12593 13374-13482 14491-14587 15381-16043 16395-16546 18407-18623 19528-19762 19552-20715			881958	AC017028	8794	1-867
HTEDV86	HTEDW59	1913	530448	AC025868	8795	1-217
HTEDV86	HTEDW59	1913	530448	AC025868	8796	1-264
HTEDV86						363-446
HTEDV86	HTEDV86	1914	785818	AL356801	8797	1-763
HTEDO75	HTEDV86	1914	785818	AL356801	8798	<u></u>
HTEDJ92	HTEDO75	1918		AL049541		
HTEDH01 1923 961028 AC019205 8801 1-224 HTEDH30 1927 522936 AL049697 8802 1-57 1807-1921 2559-2625 HTEDH30 1927 522936 AL049697 8803 1-3654 HTEDH17 1928 522938 AC026124 8804 1-413 HTEDH17 1928 522938 AC012597 8805 1-413 HTEDH06 1929 869427 AC006251 8806 1-718 767-1512 1639-2023 2398-2655 2926-2990 3300-3357 4357-4395 5163-5275 5927-6337 6945-7074 7156-7444 HTEDH06 1929 869427 AC006251 8807 1-163 460-673 787-898 4433-4791 6955-7223 7246-7642 11004-11548 12185-12593 13374-13482 14491-14587 15381-16043 1639-16546 18407-18623 19528-19762	HTEDJ92		·			
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HTEDH06 1929 869427 AC006251 8807 1-163 460-673 787-898 4433-4791 6955-7223 7246-7642 11004-11548 12185-12593 13374-13482 14491-14587 15381-16043 16395-16546 18407-18623 19528-19762 19852-20715						
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HTEDF22	1935	908406	AC002418	8814	1-823
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HTEDF22	1935	908406	AL138891	8816	1-155
HTEDF22	1935	908406	AC002418	8817	1-142
HTECE66	1936	522997	AL159160	8818	1-61
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HTECE66	1936	522997	AL390071	8820	1-259
HTECE62	1937	523002	AC069401	8821	1-158
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HTECE62	1937	523002	AC005232	8822	1-158
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HTECE51	1939	870723	AC016976	8823	1-301
HTECE51	1939	870723	AC058805	8824	1-301
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HTECE51	1939	870723	AC027764	8827	1-425
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HTECE31	1941	508104	AC023850	8829	1-283
HTECE31	1941	508104	AC069360	8830	1-409
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					18697-19052
					19112-19380
					20023-20268
					20023 20200

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					1491-1845
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					2700-3556
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					4336-4813
					4958-5775
HBGTT76	2619	903653	AC006512	10137	1-738
HBGTE11	2620	965121	AF037222	10138	1-34
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					4754-4886
					5520-6004
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		1			9691-10480
			]		10798-11383
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		1			12452-12657
				!	12889-13456
					13751-13876
	1				13921-14373
					14745-15119
					15895-16112
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HBGTE11	2620	965121	AL049840	10139	1-34
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					9677-10466
					10784-11369
		Ì			12130-12313 12438-12643
	ŀ				12875-13442
,					13740-13862
					13907-14359
					14731-15105
					15881-16098
					16275-16324
·					16440-17849
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HBGTE11	2620	965121	AL049840	10143	1-1797
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TID CNIDO4	2623	926973	AP000560	10148	7581-8170 1-1137
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	Î				6851-7280
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HBGMS69	2625	754392	AC016498	10167	1-424
HBGMS69	2625	754392	AC026740	10168	1-227
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HBGMS69	2625	754392	AC016498	10169	1-417
HBGMO78	2626	773043	AL139220	10170	1-877
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					3769-4392

					4968-5660
HBGMO78	2626	773043	AL357079	10171	1-878
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		1			2803-3761
	]		j	ļ	3770-4393
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					9252-9488
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HBGMO78	2626	773043	AC005038	10173	1-1280
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HBGMO78	2626	773043	AC005038	10174	1-1182
					1260-1342
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HBGMG81	2627	880276	AC026905	10175	1-38
HBGMG81	2627	880276	AC027551	10176	1-38
HBGMG81	2627	880276	AL365398	10177	1-47
HBGMG81	2627	880276	AC020714	10178	1-440
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HBGMG81	2627	880276	AC006512	10179	1-247
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					9884-10335
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		ļ			11323-12111
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		-			12911-13262
					13266-13791
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					15107-15207

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		•			21290-21733
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					23982-24188
					24481-24573
					24741-25003
					26591-26705
					26738-27249
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HBGMG81	2627	880276	AC020714	10181	1-842
HBGMG81	2627	880276	AC006512	10182	1-818
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					4696-5069
					5245-5337
					5461-5775
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HBGMG81	2627	880276	AC006512	10184	1-738
HBGFS88	2628	914032	AC010687	10185	1-144
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					4652-4777
					5094-5193
					5519-5647
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HBGFS88	2628	914032	A C010697	10187	14186-15261
			AC010687	<del></del>	1-109
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ITD CDCCC	2522	<b>7077</b> 40	1.000000	10100	357-503
HBGFG53	2629	727748	AC026666	10190	1-791
HBGFG53	2629	727748	AC026283	10191	1-1463
HBGFG53	2629	727748	AC026666	10192	1-244
HBGFG53	2629	727748	AC026283	10193	1-319
HBGFG53	2629	727748	AC026283	10194	1-297
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					761-840
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					3281-3345
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					4062-4625
HBGDA74	2632	832888	AP000481	10196	1-64
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HBGDA74	2632	832888	AP001100	10198	1-540

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					7245-7361
	ļ	Ì			7501-7967
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TYPOPOSO	0625	500.40.4	4 60 600 40	10000	11815-12127
HBGBG52	2635	522424	AC069042	10200	1-245
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HBGBB78	2638	773930	AC008403	10204	1-1630 2058-2480
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					12481-13862
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HBGBB78	2638	773930	AC008403	10206	1-128
провруе	2030	113930	AC000403	10200	172-232
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HBCPO75	2640	927520	AC069279	10207	1-596
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					5478-5650

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					6988-7374
HBCPK03	2641	922493	AC011719	10208	1-923
HBCPK03	2641	922493	AP001104	10209	1-923
HBCPK03	2641	922493	AP001324	10210	1-923
HBCJP02	2642	917981	AP000795	10211	1-935
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HBCJP02	2642	917981	AC018775	10212	1-935
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					2120-2653
HBCJP02	2642	917981	AC011088	10213	1-254
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					11174-11705
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HBCJG07	2643	951898	AL158821	10215	1-179
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HBCJG07	2643	951898	AL158821	10216	1-401
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HAUCC58	2644	764851	AC006329	10217	1-159
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					4695-4807

					4854-4990
					5212-5512
	}				6837-7180
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					9645-9815
			ļ		10677-11353
			1		11786-12287
					12400-13026
HAUCC58	2644	764851	AC006329	10218	1-338
	1				1214-1745
HAUAS89	2646	518847	AC008044	10219	1-119
					2461-2803
			ļ		4346-4547
]	ļ	ļ			5141-5577
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					9208-10426
İ					12618-12735
					13747-14129
					14744-15306
HAUAS89	2646	518847	AC008044	10220	1-55
					3400-3593
HAUAS89	2646	518847	AC008044	10221	1-495
HAUAQ28	2647	685374	AC027523	10222	1-1260
HAUAQ28	2647	685374	AC011774	10223	1-1260
HAUAQ28	2647	685374	AP001848	10224	1-1260
HAUAQ28	2647	685374	AC027523	10225	1-535
HAUAQ28	2647	685374	AC011774	10226	1-535
HAUAQ28	2647	685374	AP001848	10227	1-535
HACMR08	2650	955638	AC012318	10228	1-147
HACMR08	2650	955638	AL121844	10229	1-219
HACMR08	2650	955638	AC013553	10230	1-280
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					3507-3803
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					8010-8114
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			1		13100-13296
	]	1			14272-14676
		}			14966-15305
}	}	1	}		15968-16340
		<u> </u>			16952-17049
	ļ	1	}		17302-17464
<u> </u>	<u> </u>	<u> </u>		ļ	18685-19018

					19824-20193 20412-20822 21304-21778 22964-23210 23327-23714 24031-24645 24690-24771 26370-27118
HACMR08	2650	955638	AL121656	10231	1-2346
					2487-3703
					3832-4167

Table 1B summarizes additional polynucleotides encompassed by the [074] invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:) contig nucleotide sequence identifiers (SEQ ID NO:X)), and genomic sequences (SEQ ID NO:B). The first column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to each contig sequence. The second column provides the sequence identifier, "SEQ ID NO:X", for each contig sequence. The third column provides a unique contig identifier, "Contig ID:" for each contig sequence. The fourth column, provides a BAC identifier "BAC ID NO:A" for the BAC clone referenced in the corresponding row of the table. The fifth column provides the nucleotide sequence identifier, "SEQ ID NO:B" for a fragment of the BAC clone identified in column four of the corresponding row of the table. The sixth column, "Exon From-To", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:B which delineate certain polynucleotides of the invention that are also exemplary members of polynucleotide sequences that encode polypeptides of the invention (e.g., polypeptides containing amino acid sequences encoded by the polynucleotide sequences delineated in column six, and fragments and variants thereof).

## TABLE 2

Clone ID	Contig	SEO	Analysis	PFam/NR Description	PFam/NR Accession	Score/	TN	L
NO:Z	D:	E XOX	Method	•	Number	Percent Identity	From	To
H7MDD72	847688	13	blastx.2	(AF034780) Iysosphingolipid receptor	gb AAC98919.1	%56	597	7
H7MDD72	887805	2651	HMMER 1.8	Edg5 [Homo sapiens] PFAM: 7 transmembrane receptor (rhodopsin family)	PF00001	118	75	899
HAOSH55	952380	14	blastx.2	(AF200357) pantothenate kinase 1 beta [Mus musculus]	gb AAF23952.1 AF2 00357_1	78%	2	337
HAQAK73	764671	15	blastx.2	galactosylceramide-like protein, GCP - human	pirJJC5238JJC5238	%59	129	7
HAQBJ71	839982	18	blastx.2	BasR [Escherichia coli]	dbj BAA03143.1	97%	127	2 123
HBCJS08	957826	.23	blastx.2	(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1	%99	188	346
HBGBG42	922396	30	blastx.2	(AF161472) HSPC123 [Homo sapiens]	gb AAF29087.1 AF1 61472 1	20%	85	315
HBGBT79	525352	33	blastx.2	Invasin. [Escherichia coli]	dbj BAA15799.1	58% 49% 87%	35 3 199	331 209 246
HBGBW60	954916	34	blastx.2	paired-like homeodomain protein PRX2 [Homo sapiens]	gb AAB39864.1	100%	101	235
HBGDE85	524875	37	blastx.2	core protein [Escherichia coli]	gb AAA24544.1	%06	1	126

HBGDS13	971696	38	HMMER	PFAM: Zinc finger, C2H2	PF00096	4.57	167	211
			1.8	type				
			blastx.2	rhaR (AA 1-312)	emb CAA29453.1	%98	257	129
				[Escherichia coli]		92%	141	100
HBGDT43	974223	39	blastx.2	(AK000496) unnamed	dbj BAA91205.1	%08	445	311
				protein product [Homo				
				sapiens]				
HBGMD05	870189	41	blastx.2	Fos-related antigen	gb AAA79137.1	%88	4	207
				[Rattus norvegicus]				
HBGMZ39	947112	45	HMMER	PFAM: Cytochrome P450	PF00067	59.5	209	372
			4.1.1					
			blastx.2	cytochrome P450 2B -	pir JT0676 JT0676	43%	593	372
				green monkey		43%	299	168
						40%	165	121
HBGND09	848219	47	blastx.2	(AF156271) RING finger	gb AAD40286.1	%16	2	367
				protein terf [Homo				
			•	sapiens]				
HBGNM13	912730	49	blastx.2	(AE000420) putative	gb AAC76465.1	%16	188	75
				regulator [Escherichia				
				coli]			,	
HBGN007	952212	20	blastx.2	(AK000496) unnamed	dbj BAA91205.1	%18	383	303
				protein product [Homo		33%	169	53
				sapiens]				
HBGNQ31	887152	51	blastx.2	(AF022821) putative	gb AAD09338.1	%95	10	183
				potassium channel DP4				
				[Mus musculus]			· · · · · · · · · · · · · · · · · · ·	
HBGPH02	918513	58	blastx.2	alpha 1C adrenergic	dbj BAA06901.1	71%	452	327
				receptor isoform 2 [Homo		93%	339	292
				sapiens]		%69	292	254

HBGPV05	930706	09	blastx.2	(AE000157) orf,	gb AAC73617.1	77%	617	36
				hypothetical protein		47%	555	346
			•	[Escherichia coli]		%92	619.	545
HBGTR84	886529	9	blastx.2	(AL137718) hypothetical protein [Homo sapiens]	emb CAB70890.1	30%	21	581
HBNAY58	558193	72	blastx.2	human elongation factor- 1-delta [Homo sapiens]	emb[CAA79716.1	73%	. 263	400
HCBNW02	950897	08	blastx.2	(AC008372) unknown [Homo sapiens]	gb AAF23326.1 AC0 08372 2	44%	1	270
HCBOG03	922351	82	HMMER 1.8	PFAM: Zinc finger, CCHC class	PF00098	6.1	95	112
HCHAD40	923764	88	blastx.2	unidentified reading frame	emb CAA23893.1	%58	211	152
				[Escherichia coli]		81%	311	264
						100%	797	226
						81%	325	302
нснво03	923763	92	blastx.2	unidentified reading frame	emb[CAA23893.1]	%86	334	158
				Escherichia colij				
HCHIND96	880585	94	blastx.2	(AF141920) roadblock Drosophila melanogaster	gb AAD45986.1 AF1 41920 1	75%	174	455
HCHOA76	740102	95	blastx.2	(AK000385) unnamed	dbj BAA91131.1	64%	499	335
				protein product [Homo		75%	266	195
				sapiens]		28%	336	286
HCHOD89	954866	96	blastx.2	cytochrome P450 2C34v2	gb AAA79105.1	23%	94	189
				[Sus scrofa]		33%	9	98
нсновое	934941	86	blastx.2	(AK001623) unnamed	dbj BAA91793.1	.%68	183	440
	)			protein product [Homo				
				sapiens				
HC00Z11	965306	105	HMMER 1.8	PFAM: Src homology domain 3	PF00018	5.22	179	214

			blastx.2	(AL022238) dJ1042K10:2	emblCAA18266.11	100%	182	580
				supported by				}
		<del></del>		GENSCAN, FGENES and				
				GENEWISE) [Homo		_		
				sapiens]				
HEAAA42	963100	1111	HMMER	PFAM: Zinc finger, C2H2	PF00096	20.88	114	176
			1.8	type				)
			blastx.2	(AF117814) odd-skipped	gb AAD37115.1 AF1	%6L	18	221
				related 1 protein [Mus	17814_1		}	
				musculus]				
HEEAH07	851219	124	blastx.2	(AL137469) hypothetical	emb CAB70754.1	100%	178	270
				protein [Homo sapiens]				2
HEEAJ58	785121	125	blastx.2	(AF080470) pallid [Homo	gb AAF08343.1 AF0	100%	169	258
				sapiens]	80470_1	100%	06	170
						%99	169	252
HEEAJ76	887321	126	blastx.2	truncated protein	gb AAB31222.1	87%	94	23
	•			[Saccharomyces	-		•	}
				cerevisiae]				
HEEAW01	851213	133	blastx.2	(AK000385) unnamed	dbj BAA91131.1	72%	371	210
				protein product [Homo				
				sapiens				
HEGAB84	823900	137	HMMER	PFAM: Ank repeat	PF00023	36.9	205	315
			2.1.1					
			blastx.2	ankyrin 3 [Mus musculus]	gb AAB01605.1	37%	28	348
HEGAI82	955291	140	blastx.2	putative [Rattus	emb CAA52297.1	58%	1	276
				norvegicus]		%96	370	453
						31%	179	283
HEGAO83	780837	142	HMMER	PFAM: IG	PF00047	9.4	234	305
			1.8	(immunoglobulin)			7	3
								-

				superfamily				
HEGAZ61	950033	149	HIMMER 2.1.1	PFAM: Reprolysin family propeptide	PF01562	141.4	276	260
			blastx.2	epididymal apical protein	emb CAA46929.1	%76	09	. 560
				I-precursor [Macaca fascicularis]				
HEPAB70	557149	151	blastx.2	ORF_ID:0209#7	dbj BAA35540.1	83%	66	329
				[Escherichia coli]		81%	43	141
						%06	326	355
HEPAP02	926914	160	blastx.2	WW domain binding	gb AAD10950.1	100%	59	163
HEPBA39	919875	163	HMMER	PFAM: lipocalins	PF00061	26.73	117	509
			1.8					
			blastx.2	(AF109472) epididymal	gb AAC98311.1	45%	314	99
				protein 52 [Oryctolagus cuniculus]				
HEPBH38	707524	169	blastx.2	(AK000385) unnamed	dbj BAA91131.1	23%	319	146
				protein product [Homo sapiens]				
HEPCT32	947081	179	blastx.2	(AJ243311) matrix	emb CAB46656.1	32%	262	636
				metalloproteinase-2		39%	262	477
				[Equus caballus]		32%	24	269
						27%	18	275
HEPCU32	931824	180	HMMER	PFAM: lipocalins	PF00061	11.52	208	627
	-		blastx.14	mE-RABP minor form	gi 3241966 gb AAC2	30%	502	630
				protein [Mus musculus]	4316.1	20%	336	482
						%09	279	308
HEPCU32	946975	2652	HMMER	PFAM: lipocalins	PF00061	11.52	405	524

			1.8					
			blastx.14	mE-RABP minor form	gi 3241966 gb AAC2	30%	399	527
				protein [Mus musculus]	4316.1	20%	233	379
						%09	176	205
HEQAE65	911438	181	HIMMER	PFAM: Myosin head	PF00063	35.1	20	148
			2.1.1	(motor domain)				
			blastx.2	(AF234532) myosin X	gb AAF37875.1 AF2	100%	2	154
			•	[Homo sapiens]	34532_1			
HEQAH70	069669	182	blastx.2	(AJ007558) nucleoporin	emb CAA07553.1	%58	176	343
				155 [Homo sapiens]		%16	49	171
						%59	288	347
HEQA076	769973	183	blastx.2	(AF053944) aortic	gb AAC25585.1	100%	148	201
				carboxypeptidase-like		100%	-	45
				protein ACLP [Homo		34%	792	430
				sapiens]		34%	569	400
						31%	329	433
	,	•				36%	311	424
		•				24%	792	415
				•		21%	330	431
						35%	314	418
HETAF89	509300	189	blastx.2	(AF209069) hypothetical	gb[AAF16744.1 AF2	%86	72	248
				protein [Homo sapiens]	09069_2			
HETAH66	799665	191	blastx.2	IgE-binding factor [Mus	gb AAA37291.1	21%	109	216
				musculus]		37%	20	115
HETAZ13	536192	201	HMMER	PFAM: Src homology	PF00018	3.73	165	245
			1.8	domain 3				
HETDI03	925489	217	blastx.2	zinc finger protein	gb[AAC50260.1]	%81	18	131
				ZNF133 [Homo sapiens]		70%	15	134
						74%	15	131

143	131	146	131	146	134	140	292		292	216	480		531		069		1146	434	262	347	294	392			440	
18	18	18	18	18	18	18	233		218	112	418		7		.628		355	204	200	303	268	213			132	
%99	73%	%09	71%	62%	64%	%59	69.6		%26	61%	3.03		%46		9.64		25%	70%	%08	23%	%88	15.57			36%	
							PF00097		gb[AAC40075.1]		PF00293		emb[CAA22894.1]		PF00435		gb AAB01786.1		dbj BAA92096.1			PF00047			sp Q61581 Q61581	
							PFAM: Zinc finger,	C3HC4 type (RING finger)	(AF034745) LNXp80	[Mus musculus]	PFAM: Bacterial mutT	protein	(AL035291) hypothetical	protein [Homo sapiens]	PFAM: Spectrin alpha	chain, repeated domain	myosin II heavy chain	[Naegleria fowleri]	(AK002129) unnamed	protein product [Homo	sapiens]	PFAM: IG	(immunoglobulin)	superfamily	FOLLISTATIN-LIKE 2	(FOLLISTATIN-LIKE   PROTEIN).
							HMMER	1.8	blastx.2		HIMIMER	1.8	blastx.2		HIMMER	1.8	blastx.2		blastx.2			HMMER	1.8		blastx.2	
							220				227				230				233			237				
							525407				799658	_			954104				973702			947978				
							HETDP21				HETFC82				HETFI24				HETFM43			HETGL74				

HETHO63	745503	244	blastx.2	rhophilin [Mus musculus]	gb AAC52388.1	51%	160	450
						35%	47	157
HETHR24	851412	246	HMMER	PFAM: Fibrillar collagen	PF01410	53.4	201	308
			2.1.1	C-terminal domain				
			blastx.2	type V collagen [Gallus	gb AAB41274.1	%59	213	308
				gailus]		48%	98	214
						41%	336	437
HETIF01	966185	248	blastx.2	fused-ccdB [Escherichia coli]	emb CAA71575.1	94%	122	223
HETIJ84	766589	250	blastx.2	(AF161432) HSPC314 [Homo sapiens]	gb AAF28992.1 AF1 61432 1	75%	-	246
HETJX04	927120	262	HIMIMER 2.1.1	PFAM: C2 domain	PF00168	150.4	6	260
			blastx.2	(AB025258) granuphilin-a	dbj BAA84656.1	94%	9	683
				[Mus musculus]		21%	685	831
						48%	719	859
HETJY11	966194	263	blastx.2	(AK000496) unnamed	dbj BAA91205.1	%02	3	227
				protein product [Homo sapiens]				
HETKV26	910030	270	HMMER	PFAM: Oxysterol-binding	PF01237	<i>L</i> 9	2	364
			2.1.1	protein				
HETKZ65	941045	272	blastx.14	(AF067972) DNA	gi 4927370 gb AAD3	84%	63	200
				cytosine methyltransferase	3084.1 AF067972_1	72%	455	520
				3 alpha [Homo sapiens]		100%	220	537
HLWAH41	944774	283	HIMMER	PFAM: ENV polyprotein	PF00429	150	82	714
			2.1.1	(coat polyprotein)				
			blastx.2	(AF108843) env protein [Homo sapiens]	gb AAD34324.1	%05	<i>L</i> 9	711
HLWAI13	920690	284	blastx.14	(AL117538) hypothetical	gi 5912069 emb CAB	100%	496	588

	337	168	553	292		110	330	411	535	465		131	87		129		207		245
	357	118	1287	1287		21	121	65	488	710		229	137		1		130		3
	6.51	6.05	214.2	%66		9.46	32.6	37%	43%	41%		54%	28%		%69		100%		%96
55984.1	PF00098	PF00096	PF00001	gb AAD22047.1		PF00505	PF00047	pb AAC47314.1		gb AAC51337.1		gb[AAC06181.1]			gb AAF22030.1 AF1	18094_25	gb AAB92665.1		gb AAF28953.1 AF1
protein [Homo sapiens]	PFAM: Zinc finger, CCHC class	PFAM: Zinc finger, C2H2 type	PFAM: 7 transmembrane receptor (rhodopsin	tamily) (AF119815) G-protein-	coupled receptor [Homo sapiens]	PFAM: HMG (high mobility group) box	PFAM: Immunoglobulin	Frazzled [Drosophila	melanogaster	line-1 reverse	transcriptase [Homo sapiens]	(AC004416)	WUGSC:H_RG013N12.g	w.1335199.a gene product	(AF118086) PRO1992	[Homo sapiens]	(AF034209) RIG-like 5-6	[Homo sapiens]	(AF161393) HSPC275
	HMMER 1.8	HMMER 1.8	HIMMER 1.8	blastx.2	:	HMMER 1.8	HMMER	blastx.2	•	blastx.2		blastx.2			blastx.2		blastx.2		blastx.2
	285	286	288		,	299	317		•	330		339			355		375		392
	746460	694216	947484			782938	929647			969363		529410			678444		973487		919295
	HLWAJ64	HLWAK69	HLWAR77			HLWBQ84	HLWFG82			HNOAX12		HODAG37			HODBT58		HODCV09		HODDQ21

				[Homo sapiens]	61393 1			
L9SQQOH	567197	394	blastx.2	(AK001614) unnamed	dbj BAA91790.1	100%	69	164
				protein product [Homo sapiens]		100%	14	29
HODER91	789661	419	HMMER 1.8	PFAM: Zinc finger, C2H2 type	PF00096	11.06	163	225
			blastx.2	(AC007059) Human homolog of Mus musculus	gb AAD19818.1	35%	-	294
				wizL protein [AA 4-1561] [Homo sapiens]				
HODEX10	926260	423	HMMER	PFAM: Helicases	PF00271	9.2	22	54
			1.8	conserved C-terminal domain				
норғом	934304	451	blastx.2	(AK000496) unnamed	dbj BAA91205.1	48%	466	254
				protein product [Homo sapiens]		%09	537	454
HODFY16	958329	459	HMMER	PFAM: Phorbol esters /	PF00130	3.15	175	213
	•		1.8	diacylglycerol binding domain				
HODGC61	973449	463	HMMER	PFAM: Protein-tyrosine	PF00102	19:9	130	222
НОДСН02	917969	465	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	94%	17	118
НОДСН04	926255	466	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	51%	∞	247
HODGJ67	974297	471	blastx.14	pol gene protein; Xxx [Homo sapiens]	gi 1196424 gb AAA8 8026.1	%01	132	284
HODGP95	908650	477	HMMER 1.8	PFAM: Zinc finger, C2H2 type	PF00096	18.49	209	271

310	310	292	310	334	307	310	310	357	357	357	357	357	357	2	231		124	399	133	180	127	100	330		399	397	91
125	146	146	125	74	146	164	164	307	307	307	310	307	307	235	287		2	142	2	263	192	120	286		49	236	4
61%	25%	23%	41%	34%	20%	21%	46%	47%	47%	47%	20%	35%	41%	47%	21%		30.1	63%	72%	39%	45%	85%	1.62		72%	61%	20%
gb AAC32422.1					-									pir S72489 S72489			PF00620	gb AAB81198.1		gi 2318003 gb AAB6	6461.1		PF00052		gb AAA60282.1		
(AC005498) R31665_1	[Homo sapiens]	•												hypothetical protein	Tigger 2 - human	transposon MER37.1	PFAM: RhoGAP domain	(AC002398) F25965_3	[Homo sapiens]	unknown [murine	herpesvirus 68]		PFAM: Laminin B	(Domain IV)	ribosomal protein L7a	large subunit [Homo	sapiens]
blastx.2			•											blastx.2		•	HMMER 2.1.1	blastx.2		blastx.14			HIMMER	1.8	blastx.2		
														479			481			507			512				
														974290			894368			932211			572941				
														HODGQ22			норсобо			HOFAD05			HOFMB78				

116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	115	116	116	116	116	116	116	116	116	116	116
298	298	295	295	298	295	289	298	295	295	298	588	295	295	298	295	295	295	295	297	295	295	295	295	289	586	295	586	588	295
54%	46%	20%	21%	24%	20%	51%	25%	48%	46%	25%	48%	43%	21%	46%	45%	43%	46%	45%	24%	43%	43%	45%	46%	44%	44%	43%	44%	46%	43%
emb CAA58337.1																													
U88 [Human herpesvirus	[9]											<del>,</del>																	
blastx.2																													
516																													
924679														•															
HOFMF03																								·-					

HOFMG21 973358 518 HMMER PFAM: Comexin PF00029 20.4 244 288 116 41% 239 116 42% 239 116 42% 239 116 42% 239 116 42% 239 116 42% 239 115 117 HMMER PFAM: Comexin PF00029 20.4 244 288 118 HMMER PFAM: MAS20 protein remb[CAA06165.1] 85% 113 239 115 231 115 110 minport receptor blastx.14 minport receptor blastx.14 minport receptor blastx.14 minport receptor blastx.15 in protein complex blastx.2 19 May submit of minport receptor complex blastx.2 19 May submit of minport receptor blastx.2 19 May submit of minport receptor blastx.3 19 blastx.2 19 May submit of minport receptor complex blastx.3 19 May submit of complex blastx.3 19 May submit of complex blastx.4 mindordified] blastx.2 unmamed protein product emb[CAA02863.1] 88% 66 296 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 200 100% 20							43%	295	116
734917   517   HMMER   PFAM: Connexin   PF00029   41%   289     734917   517   HMMER   PFAM: Connexin   PF00029   20.4   244     2.1.1   blastx.14   mirobot receptor   pi285987 dbj BAA02   98%   114     973358   518   HMMER   PFAM: MAS20 protein   PF02064   33.6   105     2.1.1   mmbrane protein   19   804.1    72%   452     964722   519   blastx.2   19 kDa submit of   mmb/CAA42218.1    66%   83     920365   520   HMMER   PFAM: TCP-1/cpn60   PF00118   104.8   102     100%   19   100%   23.1     100%   19   100%   19     100%   19   100%   19     100%   19   100%   19     100%   19   100%   19     100%   19   100%   19     100%   19   100%   10     100%   10   100%   10     100%   10   100%   10     100%   10   100%   10     100%   10   100%   10     100%   10   100%   10     100%   10   100%   10     100%   10   100%   10     100%   10   100%   10     100%   10   100%   10     100%   10   100%   10     100%   10   100%   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%   10   10     100%							48%	289	116
734917   517   HMMER   PFAM: Connexin   PF00029   44%   342     734917   517   HMMER   PFAM: Connexin   PF00029   20.4   244     2.1.1   blastx.2   (AJ004856) connexin   PF02064   33.6   113     1 973358   518   HMMER   PFAM: MAS20 protein   PF02064   33.6   105     2.1.1   import receptor   gi[285987 dbj BAA02   98%   114     1							43%	289	116
734917   517   HMMER   FFAM: Connexin   PF00029   41%   339     2.1.1   blasts.2   (AJ004856) connexin31   emb CAA06165.1    85%   113     973358   518   HMMER   FFAM: MAS20 protein   PF02064   33.6   105     2.1.1   import receptor   plasts.14   mitochondrial outer   gi[285987 dbj]BAA02   98%   114     membrane pricin 19   804.1    72%   452     Homo sapiens    membrane pricin 19   804.1    66%   83     964722   519   blasts.2   19 kDa subunit of   emb CAA42218.1    66%   83     NADH: ubiquinone   oxidoreductase complex (complex I) [Bos taurus]   PF00118   104.8   102     10 000   10   10   10   10   10     10   10							41%	295	116
734917   517   HMMER   PFAM: Connexin   PF00029   41%   339     734917   517   HMMER   PFAM: Connexin   PF00029   20.4   244     2.1.1   blastx.2   (AJ004856) connexin31   cmb CAA06165.1    85%   113     1 973358   518   HMMER   PFAM: MAS20 protein   PF02064   33.6   105     2.1.1   import receptor   plastx.14   mitochondrial outer   gi[285987 dbj BAA02   98%   114     membrane protein 19   804.1    72%   452     Homo sapiens   Homo sapiens   19 kDa subunit of   cmb CAA42218.1    66%   83     8 920365   520   HMMER   PFAM: TCP-1/cpn60   PF00118   100%   19     9 plastx.2   unmaned protein product   cmb CAA02863.1    93%   326     10 plastx.2   unmaned protein product   cmb CAA02863.1    98%   326     10 protein [Canis familiaris]   cmb CAB46829.1    96%   231     10 protein [Canis familiaris]   66%   320     10 protein [Canis familiaris]   66%   320     11 plastx.2   (AJ388527) Ribosomal   cmb CAB46829.1    96%   320     11 plastx.3   (AJ388527) Ribosomal   cmb CAB46829.1    96%   320     11 plastx.4   protein [Canis familiaris]   cmb CAB46829.1    96%   320     12 protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris]   chaper protein [Canis familiaris [Canis familiaris [Canis familiaris [Canis familiaris [Canis familiaris [Canis familiaris [Canis familiaris							44%	342	115
734917 517 HMMER PFAM: Connexin   PF00029   20.4   244     2.1.1				-			41%	339	115
734917   517   HMMER   PFAM: Connexin   PF00029   20.4   244							42%	297	115
13358   518   HMMER   PFAM: MAS20 protein   PF02064   33.6   113   70%   285   114   70%   285   115   70%   285   115   2.1.1   import receptor   plastx.14   mitochondrial outer   gi[285987 dbj BAA02   98%   114   114   114   114   114   115   114   114   115   114   114   115   114   115   114   115   114   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115   115	OFMF70	734917	217	HMMER 2.1.1	PFAM: Connexin	PF00029	20.4	244	288
Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens   Homesapiens				blastx.2	(AJ004856) connexin31	emb CAA06165.1	85%	113	259
973358   518					[Homo sapiens]		%02	285	386
2.1.1   import receptor   gi[285987 dbj BAA02   98%   114     blastx.14   mitochondrial outer   804.1    72%   452	OFMG21	973358	518	HIMMER	PFAM: MAS20 protein	PF02064	33.6	105	248
Plastx.14 mitochondrial outer   gi[285987 dbj]BAA02   98%   114				2.1.1	import receptor				
Membrane protein 19   804.1   72% 452     Homo sapiens   19 kDa subunit of				blastx.14	mitochondrial outer	gi 285987 dbj BAA02	%86	114	416
Homo sapiens   Homo sapiens					membrane protein 19	804.1	72%	452	484
964722         519         blastx.2         19 kDa subunit of cmb CAA42218.1          66%         83           NADH:ubiquinone oxidoreductase complex (complex I) [Bos taurus]         64%         312           100365         520         HMMER         PFAM: TCP-1/cpn60         PF00118         104.8         102           2.1.1         chaperonin family         cmb CAA02863.1          93%         60         19           blastx.2         unnamed protein product         emb CAA02863.1          93%         100%         19           796358         523         blastx.2         (AJ388527) Ribosomal         emb CAB46829.1          96%         40           796358         523         brotein [Canis familiaris]         emb CAB46829.1          96%         231           66%         320					[Homo sapiens]				
NADH:ubiquinone   NADH:ubiquinone   Complex I)   NADH:ubiquinone   Complex I)   NADH:ubiquinone   Complex I)   NADH:ubiquinone   Complex I)   NADH:ubiquinosis   Complex I)   NADH:ubiquins   Complex I)   NADH:ubiquins   NADH:ubiquins   NADH:ubiquins   NADH:ubiquins   NADH:ubiquins   NADH:ubiquins   NADH:ubiquins   NADH:ubiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   NADH:upiquins   N	JFMH12	964722	519	blastx.2	19 kDa subunit of	emb CAA42218.1	%99	83	457
38         920365         520         HMMER         PFAM: TCP-1/cpn60         PF00118         104.8         102           2.1.1         chaperonin family         mhanily         60           blastx.2         unnamed protein product         emb CAA02863.1          93%         60           [unidentified]         100%         19           796358         523         blastx.2         (AJ388527) Ribosomal         emb CAB46829.1          96%         40           protein [Canis familiaris]         emb CAB46829.1          96%         231           66%         320					NADH:ubiquinone		64%	312	476
38         920365         520         HMMER         PFAM: TCP-1/cpn60         PF00118         104.8         102           2.1.1         chaperonin family         emb CAA02863.1          93%         60           blastx.2         unnamed protein product         emb CAA02863.1          88%         326           [unidentified]         100%         19           796358         523         blastx.2         (AJ388527) Ribosomal         emb CAB46829.1          96%         40           protein [Canis familiaris]         emb CAB46829.1          96%         231           66%         320					oxidoreductase complex				
38         920365         520         HMMER         PFAM: TCP-1/cpn60         PF00118         104.8         102           2.1.1         chaperonin family         emb[CAA02863.1]         93%         60           blastx.2         unnamed protein product         emb[CAA02863.1]         88%         326           [unidentified]         100%         19           796358         523         blastx.2         (AJ388527) Ribosomal         emb[CAB46829.1]         96%         40           protein [Canis familiaris]         emb[CAB46829.1]         96%         231           66%         320					(complex I) [Bos taurus]				
2.1.1 chaperonin family   2.1.1 blastx.2   unnamed protein product   emb CAA02863.1    93%   60   19	OFMH38	920365	520	HMMER	PFAM: TCP-1/cpn60	PF00118 ·	104.8	102	287
blastx.2   unnamed protein product   emb CAA02863.1    93%   60   88%   326   100%   19   100%   19   100%   19   100%   286   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%   100%				2.1.1	chaperonin family				
[unidentified]				blastx.2	unnamed protein product	emb CAA02863.1	93%	09	296
796358         523         blastx.2         (AJ388527) Ribosomal protein [Canis familiaris]         emb CAB46829.1          96%         40           protein [Canis familiaris]         66%         330					[unidentified]		%88	326	403
796358         523         blastx.2         (AJ388527) Ribosomal protein [Canis familiaris]         emb CAB46829.1          96%         40           protein [Canis familiaris]         96%         231           66%         320							100%	19	69
796358         523         blastx.2         (AJ388527) Ribosomal protein [Canis familiaris]         emb CAB46829.1          96%         40           protein [Canis familiaris]         96%         231           66%         320							100%	286	327
96% 231	FMI62	<i>1</i> 96358	523	blastx.2	(AJ388527) Ribosomal	emb CAB46829.1	%96	40	228
320					protein [Canis familiaris]		%96	231	323
							%99	320	355

	170		5% 56 274	99	56	56	56	56 61 173	61 173	56 61 173 36	56 61 173 36 36	56 61 173 36 36 113 43	56 61 173 36 36 113 43 354	56 61 173 36 36 113 43 354	56 61 173 173 36 113 43 43 181 71	56 61 61 173 36 43 354 181 71 411	56 61 173 36 36 113 43 354 181 71 411	56 61 173 36 313 43 354 113 43 354 181 71 71 71 71 71	56 61 173 36 113 43 354 181 71 411 481 71 481 71 71 481	56 61 173 173 36 113 43 354 43 43 43 43 43 43 181 71 411 48 71 71 71 71 71 71 71 71 71 71 71 77 77	56 61 61 173 36 36 43 354 113 411 411 411 411 411 411 411 57 57	56 61 61 173 36 36 43 354 113 411 411 411 411 48 71 71 71 71 71 71 71 71 71 71 71 71 71	56 61 173 36 113 43 354 113 43 354 181 71 411 48 77 277 277 277 277	56 61 61 173 36 354 113 43 354 111 411 48 77 277 277 277 297	56 61 61 173 36 354 113 43 354 111 411 48 77 277 277 297	56 61 61 173 36 113 43 354 181 71 71 411 48 . 143 57 57 277 277 277 277 277 9
1001	109.1		%56	95%	95%	95%	95%	95% 65% 49.4	95% 65% 49.4	95% 65% 73% 86%	95% 65% 49.4 49.4 86% 86%	95% 65% 73% 86% 68% 100%	95% 65% 73% 86% 68% 64%													
70010		gb AAD20974.1				emb CAB55992.1	ab CAB55992.1	1b CAB55992.1	1b CAB55992.1  101025  AAC53534.1	emb CAB55992.1  PF01025 gb AAC53534.1	emb CAB55992.1  PF01025 gb AAC53534.1  emb CAB43677.1	1b CAB55992.1  (01025  AAC53534.1  1b CAB43677.1	1b CAB55992.1  (01025  AAC53534.1   ab CAB43677.1	1b CAB55992.1  (01025  AAC53534.1   AAF28919.1 AF1	emb CAB55992.1  PF01025 gb AAC53534.1  emb CAB43677.1  gb AAF28919.1 AF1 61359_1	1b CAB55992.1  (01025  AAC53534.1   ab CAB43677.1   AAF28919.1 AF1  359_1	1b CAB55992.1  (01025  AAC53534.1   AAC53534.1   AAF28919.1 AF1  359_1	emb CAB55992.1  PF01025 gb AAC53534.1  emb CAB43677.1  61359_1 emb CAA82246.1	1b CAB55992.1  (01025  AAC53534.1   AAF28919.1 AF1  359_1	1b CAB55992.1  101025 1AAC53534.1  1b CAB43677.1  359_1 1nb CAA82246.1	1b CAB55992.1  (01025  AAC53534.1  1b CAB43677.1  359_1 nb CAA82246.1	emb CAB55992.1  PF01025 gb AAC53534.1  emb CAB43677.1  emb CAA82246.1  emb CAA82246.1	1b CAB55992.1  101025 1b CAB43677.1  1b CAB43677.1  1b CAB42246.1  1b CAA92991.1  1b CAA92991.1	emb CAB55992.1   PF01025  gb AAC53534.1   emb CAB43677.1   foli359_1  emb CAA82246.1   emb CAA92991.1	1b CAB55992.1  101025 1b CAB43677.1  159_1 159_1 16 CAA82246.1  16 CAA822991.1  16 CAA92991.1	emb CAB55992.1  PF01025 gb AAC53534.1  emb CAB43677.1  gb AAF28919.1 AF1 61359_1 emb CAA82246.1  emb CAA92991.1  emb CAB52022.1
mai protein   rrotoo/			in C27	, 77 m	sapiens]	a-i-e	ai ai	aj i	T _{IE}	Te	al al	le la le	al al	al al	al al	al al	al al	al al	al al	al al		al al				
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HSPC [Homo sapiens]	(AL117557) hypoth protein [Homo sapic PFAM: GrpE mt-GrpE#1 precurso [Rattus norvegicus] (AL050369) hypoth protein [Homo sapic (AF161359) HSPCC [Homo sapiens]	(AL117557) hypoth protein [Homo sapid PFAM: GrpE mt-GrpE#1 precurso [Rattus norvegicus] (AL050369) hypoth protein [Homo sapiens] (AF161359) HSPCC [Homo sapiens]	(AL117557) hypoth protein [Homo sapicary PFAM: GrpE mt-GrpE#1 precursor [Rattus norvegicus] (AL050369) hypoth protein [Homo sapiens] (AF161359) HSPC([Homo sapiens] glucosephosphate	(AL117557) hypoth protein [Homo sapic PFAM: GrpE mt-GrpE#1 precursc [Rattus norvegicus] (AL050369) hypoth protein [Homo sapic [Homo sapiens] glucosephosphate isomerase [Sus scro	(AL117557) hypothetic protein [Homo sapiens] PFAM: GrpE mt-GrpE#1 precursor [Rattus norvegicus] (AL050369) hypothetic protein [Homo sapiens] (AF161359) HSPC096 [Homo sapiens]	(AL117557) hypothetical protein [Homo sapiens] PFAM: GrpE mt-GrpE#1 precursor [Rattus norvegicus] (AL050369) hypothetical 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2.1.1 S2		blastx.2 (A	di.	iso	-	blastx.2 (A		ŒR ŒR	~	C2 der	C2 (C2 (C2 (C2 (C2 (C2 (C2 (C2 (C2 (C2 (	C2 GER	C2 GER	C C C C C C C C C C C C C C C C C C C	C2 C2 GER	C2 C2 C2 C2	C2 C2 C2 C2	C C C ER C	C C C C C C C C C C C C C C C C C C C	C C C C C C C C C C C C C C C C C C C	7	C C C C C C C C C C C C C C C C C C C	C C C C EB C	2 2 2 E E E E	2 2 2 2 EB 5	7
C7C					528			531																		
13003					464015			775242	775242	775242	775242	775242	775242	775242 789347 575820	775242	775242 789347 575820	775242 789347 575820	775242 789347 575820 811542	775242 789347 575820 811542	775242 789347 575820 811542	775242 789347 575820 811542 563575	775242 789347 575820 811542 563575	775242 789347 575820 811542 563575	775242 789347 575820 811542 563575 563575	775242 789347 575820 811542 563575 744325	775242 789347 575820 811542 563575 744325
	HOFMJ44				HOFMM72			HOFMP79	HOFMP79	HOFMP79	HOFMP79 HOFMQ65	HOFMP79	HOFMP79 HOFMQ65	HOFMQ65 HOFMS89	HOFMQ65 HOFMQ65 HOFMS89	HOFMQ65 HOFMQ89	HOFMQ65 HOFMS89	HOFMP79 HOFMQ65 HOFMS89	HOFMQ65 HOFMS89 HOFMT43	HOFMP79 HOFMQ65 HOFMS89	HOFMP79  HOFMQ65  HOFMT43  HOFMT72	HOFMP79 HOFMQ65 HOFMT43 HOFMT72	HOFMP79 HOFMQ65 HOFMT43 HOFMT72	HOFMP79  HOFMQ65  HOFMT43  HOFMT72	HOFMP79 HOFMR889 HOFMT43 HOFMT72 HOFMU63	HOFMQ65 HOFMS89 HOFMT43 HOFMT72 HOFMU63

				[Homo sapiens]		%98	09	125
				1		37%	128	301
						33%	128	334
HOFNG06	935569	556	blastx.2	(AL133584) hypothetical	emb CAB63728.1	%06	80	241
				protein [Homo sapiens]		%06	99	95
						100%	253	270
HOFNI08	974435	558	blastx.2	(AJ224442)	emb CAA11944.1	%18	25	423
				methyltransferase [Homo				
				sapiens				
HOFNL18	666498	561	HIMMER	PFAM: Bacterial mutT	PF00293	4.34	286	345
			1.8	protein				
HOFNL25	916963	295	HMMER	PFAM: Ribosomal L18ae	PF01775	250.8	62	331
•			2.1.1	protein family				
			blastx.2	ribosomal protein L18a -	pir S03957 R5RT18	73%	47	514
				rat				
HOFNL37	906250	563	blastx.2	vimentin [Mus musculus]	dbj BAA19834.1	%15	204	377
						41%	175	396
						100%	140	178
HOFNT59	615305	292	blastx.2	(AB026125) ART-4	dbj BAA86961.1	%65	146	451
				[Homo sapiens]		42%	18	479
HOFNU72	705435	268	blastx.2	(AF086708) 26S	gb AAC64104.1	%46	46	204
				proteasome subunit 11		%56	200	259
				[Homo sapiens]		81%	261	308
HOFNW79	973351	270	blastx.2	(AJ388527) Ribosomal	emb[CAB46829.1]	%96	85	273
				protein [Canis familiaris]		100%	276	362
						84%	365	403
					-	38%	80	133
HOFNY50	715312	572	blastx.2	(AF047704) tuftelin [Mus	gb AAC04577.1	%26	224	388
				musculus]		81%	127	222

143	425	477	369	233	43	347	388	179	73	257	504	790	643	989	9		151	293	277	7	431	377	82	509
_				_		_		_	7						_				_					
69	393	427	13	87	23	141	347	78	. 4	216	205	650	599	200	177		70	225	3	,	111	132	CA	81
%89	%06	28%	%08	%98	85%	43%	%25	47%	45%	42%	32.8	36%	%09	27%	%08		70%	68.7	7088	0/00	35%	34%	85%	32%
			gb AAD29427.1	gb AAA36383.1		emb CAB54316.1		gi 995826 gb AAC50	242.1		PF00077	gi 1397275 gb AAB0	3138.1		dbj BAA92096.1		gb AAF22025.1 AF1 18094 20	PF00096	ohlA A B17040 11	Solita military.				
			(AF139185) myomegalin [Rattus norvegicus]	nucleobindin [Homo	sapiens]	T28D6.9 [Caenorhabditis	elegans]	cyclin A/CDK2-	associated p45 [Homo	sapiens]	PFAM: Retroviral aspartyl proteases	No definition line found	[Caenorhabditis elegans]		(AK002129) unnamed protein product [Homo	sapiens	(AF118081) PRO1900 [Homo sapiens]	PFAM: Zinc finger, C2H2	Bowel Drosophila		melanogasterj			
			blastx.2	blastx.2		blastx.2		blastx.14			HMMER 1.8	blastx.14			blastx.2		blastx.2	HIMIMER 2 1 1	blastx 2					
			579	085		582		584			591	592			602		605	615				-		
			751692	827631		606999		947431			890607	986896			706816		705406	909138						
			HOFOB88	HOFOB91		HOFOF57		HOGAF39			HOGCX95	HOGEE76	٠		HOVBY34		HOVCD39	HOVEK70						

457	382	226 108	234	326	9	302	10	148	232	384	303	461	569	604	238	355	385	423		40
368	212	92	7	237	yaaal	279	96	89	89	304	792	384	342	449	89	149	68	385		249
33%	61%	53%	82%	73%	35%	75%	75%	5.1	%96	%88	95%	23%	%59	78%	11.95	42	100%	84%		94%
	gi 3114713 gb AAC7 8826.1	gi 1196425 gb AAA8 8027.1	gi 531241 dbj BAA01	393.1			gi[2981631[dbj]BAA2 5253.1	PF00505	gj 4164442 gb AAD0	5419.1			emb[CAB46721.1]		PF00119	PF00047	gb AAD42050.1 AF1	11713_1		gi 5802182 gb AAD5 1615.1 AF159714_1
	(AF061346) Edp1 protein [Mus musculus]	envelope protein [Homo sapiens]	2-oxoglutarate	dehydrogenase precursor	[Homo sapiens]		(AB012223) ORF2 [Canis familiaris]	PFAM: HMG (high mobility group) box	(AF044954)	NADH:ubiquinone	oxidoreductase PDSW	subunit [Homo sapiens]	(AL031427) dJ167A19.1	(novel protein) [Homo sapiens]	PFAM: ATP synthase A chain	PFAM: Immunoglobulin	(AF111713) junctional	adhesion molecule [Homo	sapiens	(AF159714) PPAR gamma coactivator-1
	blastx.14	blastx.14	blastx.14				blastx.14	HMMER 1.8	blastx.14				blastx.2		HMMER 1.8	HIMMER 2.1.1	blastx			blastx.14
	635	637	643				959	200	708				710		711	712				731
	922481	966158	967704				914115	960372	928614				925424		652753	884289				926787
	HPDOT03	HPDPJ69	HPDRG92				HPEKG18	HPFEA08	HPIAS40				HPIAX11		HPIAZ37	нРВQ37				HPJCC04

				[Homo sapiens]				
HPJDA08	958182	741	blastx.14	zinc finger 5 protein [Gallus gallus]	gj 1399185 gb AAB3 8387.1	39%	92	475
нрлет90	836503	750	HMMER 2.1.1	PFAM: Aldehyde dehydrogenase family	PF00171	150.4	99	371
HPMEG50	925080	908	blastx.14	Mst84Dc [Drosophila	gi[11075 emb CAA47	62%	7	30
				melanogaster]	939.1	78%	22	105
						44%	126	152
HPMFL08	692626	819	HMMER 1.8	PFAM: Src homology domain 3	PF00018	4.97	209	238
HPMGF06	954823	845	blastx.14	GTP binding protein [Mus musculus]	gi 53169 emb CAA36 803.1	95%	37	564
HPMGI03	924521	848	blastx.14	(AF106933) plexin B	gi 4056676 gb AAD0	36%	49	147
				[Drosophila melanogaster]	9426.1	%09	148	177
						63%	12	44
						43%	288	335
						<b>%99</b>	359	385
HPMGX23	575903	864	HMMER 1.8	PFAM: Helix-loop-helix DNA-binding domain	PF00010	99:9	96	194
HPMJF76	965642	875	blastx.14	pol protein [Human	gi 1780973 emb CAA	28%	234	326
				endogenous retrovirus K]	71417.1	40%	28	138
						63%	134	199
HPMJN59	946876	877	HMMER	PFAM: Prolyl	PF00326	21.87	138	251
			1.8	oligopeptidase family				
			blastx.2	(AC005594) R26984_1	gb AAC33801.1	61%	138	521
				[Homo sapiens]				
HPMKM81	894416	884	HMMER	PFAM: Homeobox	PF00046	82.2	94	228
			2.1.1	domain				
HPRCC08	939490	901	blastx.14	2.19 [Homo sapiens]	gi 854082 emb CAA6	24%	120	296

HPWAS77 908450	450	710						
		714	HMMER 2.1.1	PFAM: gag gene protein p24 (core nucleocapsid profein)	PF00607	92.3	655	266
	·		blastx.14	gag protein [Human	gil1780975 emb CAA	37%	730	248
				endogenous retrovirus K]	71418.1	38%	185	108
						45%	253	188
1					-	20%	25	2
HSWAC73 710354		926	HMMER 1.8	PFAM: WD domain, G-beta repeats	PF00400	66.6	134	190
HTEAL28 963538	538	939	blastx.14	(AL080154) hypothetical	gi 5262611 emb CAB	36%	234	413
1	†			protein [1101110 saprens]	17.747.1			
HTEBC74   887782		945	HMMER	PFAM: Armadillo	PF00514	20.2	28	183
			1.8	segment protein, repeats				
HTEBY08   960427	427	954	HMIMER	PFAM: Protein	PF01240	92.8	63	251
			2.1.1	phosphatase 2A regulatory				
				subunit PR55				•
			blastx.14	protein phosphatase 2A1	gi 619215 gb AAA58	%16	63	197
				B gamma subunit	956.1	87%	231	254
				[Oryctolagus cuniculus]				
HTECA21   911369		962	HMMER	PFAM: PDZ domain	PF00595	57.6	100	354
			2.1.1	(Also known as DHR or GLGF).				
			blastx.14	tyrosine phosphatase	gi 1486367 emb CAA	81%	85	351
				[Homo sapiens]	56124.1	21%	467	652
HTEDI02   921243	243	994	HIMIMER	PFAM: Leucine Rich	PF00560	36.2	346	414
			2.1.1	Repeat				
		-	blastx.14	densin-180 [Rattus	gi 1657758 gb AAC5	36%	220	450
				norvegicus]	2881.1	32%	214	450

456	450	453						453							164	118				472							L
220	241	214	214	214	268	463	220	214	463	463	463	463	463	463	6	11	305	587	452	251	293	332	311	995	184	329	0
34%	30%	33%	76%	29%	36%	36%	24%	76%	40%	75%	29%	31%	29%	24%	104.6	%99	46%	25%	21%	24%	78%	79%	15%	24%	32%	25%	2 19
															PF00210	gi 5733824 gb AAD4	9751.1 AF176069_1										PF00099
	-														PFAM: Ferritins	(AF176069) ubiquilin	[Homo sapiens]										PFAM: Zinc-binding
	•														HMMER   2.1.1	blastx.14				_							HMMER
													_		1007	1013						-					1017
		<del></del> .													530589	932315											771505
					-										HTEDQ30	HTEDU48											HTEDY38

	457	220	181	197	233	395	761	. 848	1100	612	371		135		240		146	236	230	316	230	149	230	334
	969	405	234	93	3	3	489	292	1023	112	222		16		178		78	6	6	227	6	6	54	230
	46%	41%	%19	65.2	50.8	85%	64%	85%	38%	79%	50.6		19.3		41.7		53.9	%06	33%	%08	33%	46%	78%	31%
	gi 63426 emb CAA43	319.1		PF00226	PF00069	gi 205278 gb AAA41	562.1	-		emb CAB42447.1	PF00056		PF00002		PF00612		PF00096	gi 1388166 gb AAB1	7949.1					
metalloprotease domain	lysozyme [Gallus gallus]			PFAM: DnaJ domain	PFAM: Eukaryotic protein kinase domain	male germ cell-associated	kinase (mak) [Rattus	norvegicus]		unnamed protein product [unidentified]	PFAM: lactate/malate	dehydrogenase	PFAM: 7 transmembrane	receptor (Secretin family)	PFAM: IQ calmodulin-	nom gmpuo	PFAM: Zinc finger, C2H2 type	Bowel [Drosophila	melanogaster]					
1.8	blastx.14			HMMER 2.1.1	HMMER 2.1.1	blastx.14				blastx.2	HIMMER	2.1.1	HIMIMER	2.1.1	HMMER	2.1.1	HMMER 2.1.1	blastx.14						
	1018			1059	1061					1085	1096		1113		1117		1127					-7		
	922964			675087	932583			•		973071	526687		529280		920610		663056							
	HTEDY54			HTEGM38	HTEGO05					HTEHC47	HTEHI14		HTEHS19		HTEHV72		HTEB14							

316	381	380	426	275	367	406	406	406	406	406	406	406	137	406	409	431	431	431	431	431	263	216		225
224	307	297	358	117	188	353	353	353	353	353	368	356	09	353	326	411	411	411	408	414	192	1		1
35%	32%	32%	34%	64%	28%	20%	20%	· 50%	20%	44%	%19	47%	45%	38%	44%	100%	85%	82%	81%	100%	11.27	34.7	<u> </u>	70.1
				gi 4680715 gb AAD2 7747.1 AF132972 1	gi 55471 emb CAA38	920.1															PF00036	PF01490		PF00456 ·
				(AF132972) CGI-38 protein [Homo sapiens]	Zfp-29 [Mus musculus]																PFAM: EF hand	PFAM: Transmembrane	amino acid transporter protein	PFAM: Transketolase
				blastx.14	blastx.14						,				(0)						HMMER 1.8	HIMMER	2.1.1	HMMER 2.1.1
				1128	1136																1139	1148		1154
	_			958355	967431																953803	941155		870652
				HTEIF40	HTEIK11																HTEIL07	HTEIP88		HTEIU92

682 364	454	260		203	203	203	203 322 52	203 322 52 52	203 322 52 52 190	203 203 322 52 52 190 319	203 322 52 52 190 319 265	203 322 52 52 190 319 637	203 322 52 52 190 319 265 637	203 322 52 52 190 319 265 637	203 322 52 52 319 265 637 487	203 322 52 52 319 319 637 637 549	203 322 322 190 319 265 637 637 639 629	203 322 52 52 319 319 289 637 637 549 629	203 322 52 52 319 265 637 637 549 629	203 322 322 323 319 319 637 639 629 629 639	203 322 322 323 319 319 637 639 639 706	203 322 52 52 52 319 265 637 639 706 539	203 322 322 323 319 319 637 639 639 639 539 539	203 322 322 323 319 319 639 639 639 706 539	203 322 203 322 52 52 637 639 639 639 639 706 539 539	203 322 52 52 52 52 637 639 706 539 706 539
359					111																					
02%	%16	74%	83%		31%	31%	31%	31%	31% 14.92 73%	31% 14.92 73% 84%	31% 14.92 73% 84% 65%	31% 14.92 73% 84% 65% 2.28	31% 14.92 73% 84% 65% 2.28	31% 14.92 73% 84% 65% 65%	31% 14.92 73% 84% 65% 2.28 69% 53%	31% 14.92 73% 84% 65% 53% 77%	31% 14.92 73% 84% 65% 2.28 69% 53% 77%	31% 14.92 73% 84% 65% 53% 77% 37%	31% 14.92 73% 84% 65% 52.8 53% 77% 37% 13.29	31% 14.92 73% 84% 65% 2.28 53% 77% 37% 13.29	31% 14.92 14.92 84% 65% 65% 53% 77% 37% 13.29	31% 14.92 14.92 84% 65% 65% 53% 77% 37% 13.29 100% 62% 62%	31% 14.92 13% 84% 65% 53% 77% 37% 13.29 100% 62% 62% 84.7	31% 14.92 14.92 84% 65% 65% 53% 77% 37% 13.29 100% 62% 84.7	31% 14.92 14.92 2.28 65% 53% 77% 37% 13.29 100% 62% 62% 62%	31% 14.92 14.92 84% 65% 53% 77% 37% 13.29 100% 62% 62% 62%
3991.1	gi 4836805 gb AAD3	0564.1 AF146793_1				PF00271	PF00271	PF00271	PF00271 gi 806464 gb AAB33	PF00271 gi 806464 gb AAB33 364.1	PF00271 gi 806464 gb AAB33 364.1	PF00271 gi 806464 gb AAB33 364.1  PF00099	PF00271 gi 806464 gb AAB33 364.1  PF00099	PF00271 gi 806464 gb AAB33 364.1  PF00099 dbj BAA34576.1	PF00271 gi 806464 gb AAB33 364.1  PF00099 dbj BAA34576.1	PF00271 gi 806464 gb AAB33 364.1  PF00099 dbj BAA34576.1	PF00271 gi 806464 gb AAB33 364.1  PF00099 dbj BAA34576.1									
norvegicus]	(AF146793) protein B	[Mus musculus]				PFAM: Helicases	PFAM: Helicases conserved C-terminal	PFAM: Helicases conserved C-terminal domain	PFAM: Helicases conserved C-terminal domain vasa-like gene protein,	PFAM: Helicases conserved C-terminal domain vasa-like gene protein, RVLG protein=putative	PFAM: Helicases conserved C-terminal domain vasa-like gene protein, RVLG protein=putative DEAD 1 [Rattus sp.]	PFAM: Helicases conserved C-terminal domain vasa-like gene protein, RVLG protein=putative DEAD 1 [Rattus sp.] PFAM: Zinc-binding	PFAM: Helicases conserved C-terminal domain vasa-like gene protein, RVLG protein=putative DEAD 1 [Rattus sp.] PFAM: Zinc-binding metalloprotease domain	PFAM: Helicases conserved C-terminal domain vasa-like gene protein, RVLG protein=putative DEAD 1 [Rattus sp.] PFAM: Zinc-binding metalloprotease domain (AB017800) nolp [Homo	PFAM: Helicases conserved C-terminal domain vasa-like gene protein, RVLG protein=putative DEAD 1 [Rattus sp.] PFAM: Zinc-binding metalloprotease domain (AB017800) nolp [Homo sapiens]	PFAM: Helicases conserved C-terminal domain vasa-like gene protein, RVLG protein=putative DEAD 1 [Rattus sp.] PFAM: Zinc-binding metalloprotease domain (AB017800) nolp [Homo sapiens]	PFAM: Helicases conserved C-terminal domain vasa-like gene protein, RVLG protein=putative DEAD 1 [Rattus sp.] PFAM: Zinc-binding metalloprotease domain (AB017800) nolp [Homo sapiens]	PFAM: Helicases conserved C-terminal domain vasa-like gene protein, RVLG protein=putative DEAD 1 [Rattus sp.] PFAM: Zinc-binding metalloprotease domain (AB017800) nolp [Homo sapiens] PFAM: Heat shock hsp90	PFAM: Helicases conserved C-terminal domain vasa-like gene protein, RVLG protein=putative DEAD 1 [Rattus sp.] PFAM: Zinc-binding metalloprotease domain (AB017800) nolp [Homo sapiens] PFAM: Heat shock hsp90 proteins	PFAM: Helicases conserved C-terminal domain vasa-like gene protein, RVLG protein=putative DEAD 1 [Rattus sp.] PFAM: Zinc-binding metalloprotease domain (AB017800) nolp [Homo sapiens] PFAM: Heat shock hsp90 proteins (AF151885) CGI-127	PFAM: Helicases conserved C-terminal domain vasa-like gene protein, RVLG protein=putative DEAD 1 [Rattus sp.] PFAM: Zinc-binding metalloprotease domain (AB017800) nolp [Homo sapiens] PFAM: Heat shock hsp90 proteins (AF151885) CGI-127 proteins	PFAM: Helicases conserved C-terminal domain vasa-like gene protein, RVLG protein=putative DEAD 1 [Rattus sp.] PFAM: Zinc-binding metalloprotease domain (AB017800) nolp [Homo sapiens] PFAM: Heat shock hsp90 proteins (AF151885) CGI-127 protein [Homo sapiens] PFAM: EF hand	PFAM: Helicases conserved C-terminal domain vasa-like gene protein, RVLG protein=putative DEAD 1 [Rattus sp.] PFAM: Zinc-binding metalloprotease domain (AB017800) nolp [Homo sapiens] PFAM: Heat shock hsp90 proteins (AF151885) CGI-127 protein [Homo sapiens] PFAM: EF hand integumentary mucin B.1	PFAM: Helicases conserved C-terminal domain vasa-like gene protein, RVLG protein=putative DEAD 1 [Rattus sp.] PFAM: Zinc-binding metalloprotease domain (AB017800) nolp [Homo sapiens] PFAM: Heat shock hsp90 proteins (AF151885) CGI-127 proteins (AF151885) EF hand integumentary mucin B.1 [Xenopus laevis]	PFAM: Helicases conserved C-terminal domain vasa-like gene protein, RVLG protein=putative DEAD 1 [Rattus sp.] PFAM: Zinc-binding metalloprotease domain (AB017800) nolp [Homo sapiens] PFAM: Heat shock hsp90 proteins (AF151885) CGI-127 proteins (AF151885) EF hand integumentary mucin B.1 [Xenopus laevis] PFAM: Zinc-binding	PFAM: Helicases conserved C-terminal domain vasa-like gene protein, RVLG protein=putative DEAD 1 [Rattus sp.] PFAM: Zinc-binding metalloprotease domain (AB017800) nolp [Homo sapiens] PFAM: Heat shock hsp90 proteins (AF151885) CGI-127 protein [Homo sapiens] PFAM: EF hand integumentary mucin B.1 [Xenopus laevis] PFAM: Zinc-binding metalloprotease domain
. 11	blastx.14 (					HMMER I		<del>                                     </del>							x 4 x	<b>X</b> 4 <b>X</b>	W 4 W	W 4 W W	<b>8</b> 4 <b>8 8</b>	W 4 W 4	W 4 W W 4	W 4 W W 4 W	C.14 C.14 C.14 C.14 C.14	GER GER GER GER GER	GER GER GER GER GER GER GER GER GER GER	C.14 C.14 C.14 C.14 C.14 C.14 C.14 C.14
	1163					1170	1170	1170	1170	1170	1170	1170	1170	1170	1170	1170	1170	1170	1170	1172 1172 1180 1181	1172 1172 1180 1181	1170 1172 1180 1181 1181 1210	1170 1172 1180 1181 1210	1172 1180 1181 1210 1221	1170 1172 1180 1181 1181 1210 1221	1170 1172 1180 1181 1210 1221
	955242					098360	908360	908360	908360	908360	908360	908360	908360	908360	908360	908360	908360	908360	908360	908360 942476 914785 916481	908360 942476 914785 916481	908360 942476 914785 916481	908360 942476 914785 916481	908360 942476 914785 916481 846714 963563	908360 942476 914785 916481	908360 942476 914785 916481 846714 963563
	HTEIY80					HTEJE15	HTEJE15	HTEJE15	HTEJE15 HTEJF45	HTEJE15	HTEJE15 HTEJF45	HTEJE15 HTEJF45	HTEJE15	HTEJF15 HTEJF10	HTEJE15 HTEJF45 HTEJP10	HTEJF45 HTEJP10 HTEJP66	HTEJE15 HTEJF45 HTEJP10 HTEJP66	HTEJE15 HTEJF45 HTEJP10 HTEJP66 HTEJP66	HTEJF15 HTEJF10 HTEJF66 HTEJF66 HTELE10	HTEJE15 HTEJF45 HTEJP66 HTEKS20 HTELE10	HTEJE15 HTEJE16 HTEJE66 HTELE10 HTELE189	HTEJE15 HTEJF45 HTEJP10 HTEJP66 HTELE10 HTELE189				

			1.8	III domain				
			blastx.14	neural cell adhesion	gi 1016012 gb AAC5	%96	1	918
				protein BIG-2 precursor	2262.1	%89	096	1025
				[Rattus norvegicus]		92%	976	296
						%99	22	75
						78%	-	171
						25%	_	54
						78%	286	399
						42%	10	93
						44%	280	354
						33%	274	390
						33%	286	357
						100%	1028	1054
						42%	184	225
						100%	1057	1077
						28%	658	741
HTEMA54	911666	1260	HIMIMER 2.1.1	PFAM: Actin	PF00022	320.7	247	1161
			blastx.14	actin [Girardia tigrina]	gi 4204812 gb AAD1	42%	253	849
					1530.1	44%	955	1161
						22%	1232	1360
						48%	847	927
						28%	1169	1204
HTEMK03	923066	1273	blastx.14	(AF116463) unknown	gi 4455041 gb AAD2	37%	302	216
				[Streptomyces	1045.1	23%	171	127
				lincolnensis]		47%	348	292
						23%	55	17
						35%	231	181
						42%	190	134

78	00	629	103	286	286	286	292	286	304	286	286	286	286	283	286	283	866	931	280	383	226	319	337	450
134	43	12	35	2	2	7	2	2	2	7	2	7	S	2	5	2	606	998	20	240	80	122	143	331
42%	28%	%16	51.5	%19	%95	%95	24%	25%	20%	23%	21%	51%	23%	51%	25%	21%	40%	45%	78%	37%	32%	62.3	47%	32%
		gi 5912114 emb CAB 55995.1	PF00096	emb CAA55533.1															gi 2653671 gb AAC1	5893.1		PF00651	gi 3599513 gb AAC3	5368.1
		(AL117564) hypothetical protein [Homo sapiens]	PFAM: Zinc finger, C2H2 type	zinc finger protein [Homo	sapiens]														120 kDa style	glycoprotein [Nicotiana	alata]	PFAM: BTB/POZ domain	(AF086831)	leukemia/lymohoma related factor cLRF
		blastx.14	HMMER 2.1.1	blastx.2															blastx.14	,		HMMER 2.1.1	blastx.14	
		1280	1281						-										1284			1288		
		932319	909280																934338			913795		
		HTEMP49	HTEMR65																HTEMT06			HTEMX92		

		Т		-				T .	Т		$\top$		1		т —	Τ	T	T	T
	514	514	319	214	487	199		166		132	644	808	592		100	236	349	435	295
	308	269	101	88	446	107		83	ļ	01	285	620	449		20	69	266	358	59
	118.2	43%	43%	79%	21%	6.37		11.77	,000	%78	%62	74%	6.56		14.65	15.44	22.29	11.37	126.92
	PF00505	gi 639691 dbj BAA06	440.1			PF00196		PF00515		gil1/1248 go AAC3 0354.1	gi 4210989 gb AAD1	2066.1	PF00097		PF00008	PF00505	PF00036	PF00125	PF00062
[Gallus gallus]	PFAM: HMG (high mobility group) box	HMG-X protein [Xenopus	[aevis]			PFAM: Bacterial	regulatory proteins, luxR family	PFAM: TPR Domain	manatoin friences and at the	protein kinase related to Raf protein kinases; 1	(AF121781) unknown	[Homo sapiens]	PFAM: Zinc finger,	C3HC4 type (RING finger)	PFAM: EGF-like domain	PFAM: HMG (high mobility group) box	PFAM: EF hand	PFAM: Core histones H2A, H2B, H3 and H4	PFAM: C-type lysozymes and alpha-lactabulmin
	HMMER 2.1.1	blastx.14				HIMMER	1.8	HMMER 18	1.0 14	Diastx.14	blastx.14		HIMIMER	1.8	HMMER 1.8	HMMER 1.8	HMMER 1.8	HMMER 1.8	HMMER 1.8
	1299					1306		1307	1200	1509	1311		1319		1327	1330	1333	1336	1338
	917213					787535		775387	063530	066606	920834		884043		847224	870575	815852	870532	870566
	HTENI58					HTENP54		HTENP80	LTENID 10	DIEMNIO	HTENR93		HTENY35		HTEOF80	HTEOI36	HTEON29	HTEOV90	HTEOW39

HTEPA08	958391	1340	blastx.14	(AF004430) hD54+ins2	gi 2895085 gb AAC9	47%	225	482
				isoform [Homo sapiens]	8478.11	%19	483	201
HTEPE28	932576	1347	HIMMER	PFAM: metallopeptidase	PF00557	203	Cor	CVV
			2.1.1	family M24		3	4	744
			blastx.14	(AC002387) putative	gi 2583129 gb AAB8	%89	2	442
				methionine	2638.1	51%	408	488
				aminopeptidase				2
				[Arabidopsis thaliana]				
HTEPM33	870561	1354	HMMER	PFAM: LIM domain	PF00412	95.6	4	180
			2.1.1	containing proteins				}
HTEPN07	952243	1356	blastx.14	WW domain binding	gil4205086 gb AAD1	54%	174	311
				protein-2 [Homo sapiens]	0951.1	42%	0	158
HTEPP30	947107	1359	blastx.14	(AF081947) tektin [Mus	gi 4235350 gb AAD1	73%	30	689
				musculus]	3183.1	21%	72	590
HTEPV02	917406	1366	HIMIMER	PFAM: Ank repeat	PF00023	30.4	343	435
_			7.7.7					
			blastx.14	alt. ankyrin (variant 2.2)	gi 747710 emb CAA3	41%	247	411
				[Homo sapiens]	4611.1			
HTEPX32	840028	1367	HMMER	PFAM: Double-stranded	PF00035	36	508	669
			1.8	RNA binding motif				``
HTEQD40	915198	1371	blastx.14	(AC004877) sco-spondin-	gi 3638957 gb AAC3	30%	278	171
				mucin-like; similar to	6301.1	33%	592	195
				P98167 I sapiens]		43%	188	141
						45%	206	447
						24%	110	78
						45%	121	65
UTEOE97	050264	1273				25%	260	177
nieces,	938334	13/3	blastx.14	(AF132972) CGI-38	gi 4680715 gb AAD2	%05	334	645
				protein [Homo sapiens]	7747.1 AF132972_1	28%	149	349

48	155	5		869		501		1096	568	1096	160	652	34	445	919	934	694	691	271	355	176	119		422
7	17.4	t		141		472		170	170	761	229	593	2	245	239	762	632	611	197	179	57	51		12
5.99	32.0	7.70		74%		3.53		345.2	%05	42%	53%	45%	63%	119.8	%19	78%	47%	40%	47.6	%19	42%	80.8		%02
PF00505	DE00335	CCCOTI		gb AAF08363.1 AF1	33424_1	PF00293		PF00022	gj[290399]gb AAC80	574.1				PF00226	gi 3402485 dbj BAA3	2209.1			PF00096	gb AAA86728.1		PF00096		emb CAB36862.1
PFAM: HMG (high	DEAM: 4 transmembrane	segments integral	membrane proteins	(AF133424) tetraspanin	TM4-B [Homo sapiens]	PFAM: Bacterial mutT	protein	PFAM: Actin	actin 2 [Echinococcus	granulosus				PFAM: DnaJ domain	(AB014888) MRJ [Homo	sapiens]			PFAM: Zinc finger, C2H2 type	Kruppel-like factor LKLF	[Mus musculus]	PFAM: Zinc finger, C2H2	type	(AL022067) dJ134E15.1
HMMER	HAMATED	1.8		blastx.2		HIMMER	1.8	HMMER 2.1.1	blastx.14					HMMER 2.1.1	blastx.14				HMMER 2.1.1	blastx.2		HMMER	2.1.1	blastx.2
1379	1381	1961				1383		1398						1402					1407			1409		
966141	0206/11	140666				924799		911655						908832					908613			909254		
HTEQP45	UTEOD 15	CINDAIN				нтеот63		HTLCA95	1					HTLCY54					HTLDE64			HTLDF33		

_				_					_					1	_		_	_	_					
392	199	63	263	263	242	93	105	93	93	1069		1054		271		487		469	469	540	270	429	338	223
24	95	28	96	108	108	40	37	40	43	233		131		59		47		125	2	451	205	343	306	44
38%	48%	28%	37%	34%	37%	44%	30%	38%	29%	454.7		93%	-	36.9		<i>%LL</i>		141.45	30%	33%	%06	28%	81%	55.9
	gi 161963 gb AAA30	151.1	gi 3668087 gb AAC6	1819.1						PF00735		emb[CAB59833.1]		PF00169		dbj BAA92229.1		PF00022	gi 4731565 gb AAD2	8502.1[AF113908_1	gi 2739052 gb AAC0	3366.1		PF00069
(Blimp-1) [Homo sapiens]	actin [Trypanosoma	brucei]	(AC004667) hypothetical	protein [Arabidopsis	thaliana]		٠			PFAM: Cell division	protein	(AJ250723) septin-like	protein Sint1 [Mus musculus]	PFAM: PH domain		(AK000004) FLJ00004	protein [moino sapiens]	PFAM: Actins	(AF113908) actin-related	protein [Emericella nidulans]	(AF025310) tssk-1 and	tssk-2 kinase substrate	[Mus musculus]	PFAM: Eukaryotic protein kinase domain
	blastx.14		blastx.14							HMMER	7.1.1	blastx.2		HMMER	2.1.1	blastx.2		HMMER 1.8	blastx.14		blastx.14			HMMER 2.1.1
	1410		1413							1416				1417				1419			1429			1431
	911645		915223							891322				909752	•			911649			934287			973302
	HTLDG55		HTLD094							HTLDS55				HTLDT05				HTLDU05			HTLEH30			HTLEIII

			blastx 14	(AF144573) Mx-	gil4868443lgblAAD3	%69	35	268
				interacting protein kinase	1319.1 AF144573_1	40%	437	592
				PKM [Mesocricetus		42%	293	397
				auratus]		38%	. 877	939
HTLET56	911654	1444	HMMER 1.8	PFAM: Actins	PF00022	262.03	134	703
•			blastx.14	actin [Filobasidiella	gi 508701 gb AAC49	52%	143	715
				neoformans	074.1	33%	787	963
						23%	721	804
						52%	996	1022
HTLET78	836820	1445	HMMER	PFAM: Proprotein	PF01483	216.9	38	433
			2.1.1	convertase P-domain				
HTLEV95	883332	1448	HIMMER	PFAM: Phorbol esters /	PF00130	1.97	172	225
			1.8	diacylglycerol binding		•		
				domain				
HTLEY11	967309	1451	blastx.14	(AC004877) sco-spondin-	gi 3638957 gb AAC3	%99	792	250
,		•		mucin-like; similar to	6301.1			
				P98167 1 sapiens]				
HTLFE05	954984	1459	blastx.14	(AJ007798) nuclear	gi 5834580 emb CAB	%98	12	731
				protein SA3 [Homo	55312.1	%59	289	924
				sapiens]				
HTLFI39	953730	1462	blastx.2	(AF053356) ORF4 [Homo	gb AAC78801.1	100%	77	256
				sapiens]		100%	3	11
						100%	376	420
HTLGD25	870136	1465	HIMMER 1.8	PFAM: Ubiquitin family	PF00240	83.86	62	324
HTLGM07	952254	1470	HMMER 2.1.1	PFAM: 'Cold-shock' DNA-binding domain	PF00313	70.2	3	158
			blastx.14	(AF096834) germ cell	gi 4837737 gb AAD3	%06	3	323
						,		

		specific Y-box binding	0662.1	100%	393	485
		protein [Homo sapiens]		100%	549	614
				100%	711	761
				36%	199	750
				78%	637	720
				34%	117	203
				40%	475	519
				93%	487	519
	blastx.14	a6(IV) collagen [Homo	gi[1850097 dbj BAA0	48%	187	261
		sapiens]	9791.1	38%	379	456
				%19	503	541
				40%	113	178
				%08	232	261
			•	61%	181	219
				23%	229	273
				37%	196	276
	•			42%	14	70
				%99	181	207
	HMMER 2.1.1	PFAM: UBX domain	PF00789	20.1	637	846
	HMMER 2.1.1	PFAM: 'Cold-shock' DNA-binding domain	PF00313	36.8	6'	95
	blastx.14	(AF096834) germ cell	gi 4837737 gb AAD3	%88	3	260
		specific Y-box binding	0662.1	92%	330	443
		protein [Homo sapiens]		62%	424	528
				100%	539	577
				37%	539	625
				34%	397	483
_				20%	519	572

613	634	479	140	531	363	479	284		243	358	455	270	308	475	749	542	46	137	137	137	137	187	240	293	187	281	387
584	209	342	54	460	256	405	195		_	287	402	235	240	152	591	465	7	3	3	m	45	128	181	234	128	234	340
402	78%	23%	34%	37%	30%	30%	24.08		43%	%99	20%	28%	39%	83%	%09	%96	%99	37%	35%	33%	35%	45%	45%	45%	40%	20%	20%
							PF00076		gi 3925211 emb CAA	21539.1				gi 5230678 gb AAB6	2723.2			gi 482882 gb AAC46	499.1								
							PFAM: RNA recognition motif. (aka RRM, RBD,	or KNP domain)	(AL032626) cDNA EST	EMBL:D70654 comes	from this 1 1 1 yk377b8.3	comes f		(AF005038) secretory	carrier membrane protein	[Homo sapiens]		circumsporozoite protein	[Plasmodium vivax]								
							HMMER 1.8		blastx.14		_			blastx.14				blastx.14						-			
		•					1478		1481					1484				1486									
							933335		946586					936139		<del></del>		963475									
							HTLHP32		HTLHT15			-		HTLHV67				HTLHZ10									

240	187	187	334	334	293	187	240	281	387	346	175	293	240	346	275	417	319	933	936		274	438	1340		1355		206
181	128	128	287	287	234	128	181	234	340	287	128	258	205	311	9	292	257	166	133		2	394	1152		3		3
40%	40%	40%	20%	%05	40%	40%	40%	20%	20%	40%	20%	20%	20%	20%	24%	71%	21%	251.19	44%		100%	100%	9.14		64%		83%
															gb[AAC05601.1]			PF00069	gb AAA99535.1		gb[AAC78801.1]		PF00018		emb CAB61362.1		gi 2739052 gb AAC0
															(AC004410) fos39554_1	[Homo sapiens]		PFAM: Eukaryotic protein kinase domain	serine/threonine kinase	[Mus musculus]	(AF053356) ORF4 [Homo	sapiens]	PFAM: Src homology	domain 3	(AL133030) hypothetical	protein [Homo sapiens]	(AF025310) tssk-1 and
															blastx.2			HMMER 1.8	blastx.2		blastx.2		HMMER	1.8	blastx.2		blastx.14
															1488		•	1495			1496		1498				1500
															945891			942161			953729		922923		-		953714
															HTLID36			HTLIY52			HTLJA23		HTLJC71				HTLJD88

				tssk-2 kinase substrate	3366.1	74%	554	715
			,	[Mus musculus]		%56	263	391
						72%	516	548
						17%	468	464
						63%	510	542
		_				32%	260	334
÷						%09	21	50
HTLJJ75	924755	1501	HMMER	PFAM: Coenzyme A	PF01144	317.7	445	813
			2.1.1	transferase				
			blastx.14	succinyl-CoA:alpha-	gi 164423 gb AAA31	85%	448	813
				ketoacid coenzyme A	019.1	%59	37	405
				transferase [Sus scrofa]		%08	813	211
						%62	086	1096
HTTBJ94	530564	1515	HIMMER	PFAM: Protein of	PF01871	63.2	18	254
			2.1.1	unknown function				
HTTCT34	973210	1521	HMMER	PFAM: Divalent cation	PF01769	46.7	93	251
			2.1.1	transporter				
			blastx.2	(AK000480) unnamed	dbj BAA91192.1	%68	466	972
				protein product [Homo		%96	105	491
				sapiens]		28%	861	1049
HTTD019	908937	1532	HIMIMER	PFAM: Zinc finger, C2H2	PF00096	42.8	22	90
			2.1.1	type				
			blastx.2	zinc finger protein [Homo	emb[CAA55529.1]	<i>%9L</i>	1	129
·				sapiens]		72%	_	129
						45%		237
						%19		129
		استيادية				44%	_	237
						<i>%</i> 29		129
						20%	13	234

190	287	190	190	287	287	221	227	190	649	352	827	424	1124		196		289	450	309			150	167	323	270	
125	180	149	161	180	180	180	180	26	536	197	759	377	195		47		8	292	73			2	701	000	707	
63%	36%	71%	%06	36%	36%	21%	20%	36%	25%	32%	25%	43%	84%		15.82		%19	%95	81%			4407	82%	6 93	70.0	
				-		•		gi 1098569 gb AAA8	2599.1				dbj BAA91592.1		PF00018		emb CAB41255.1		sp G545790 G545790			mice 4 & 10010 & 4 & 100	001040000000000000000000000000000000000	DE00175		
-								glycosyl-phosphatidyl-	inositol-anchored protein	homolog [Mus musculus]			(AK001269) unnamed	protein product [Homo sapiens]	PFAM: Src homology	domain 3	(AL049683) hypothetical	protein [Homo sapiens]	DARPP-32=DOPAMINE	AND CAMP.	KEGULA LED	SHB-SPC HOMOLOGY	2 PROTFIN	PFAM: FAD/NAD-	binding domain in	oxidoreductases
		-						blastx.14					blastx.2		HMMER	1.8	blastx.2		blastx.14			block 14	Oldstv. 14	HWMFR	1.8	
								1543					1556		1587				1594			1612	1012	1639		
				· / · · ·				967819					950051		911390				966804			928053	6666	922064		
								HTTEU68					HTTFM66		HTTKP07				HUKAC72			HIIVCO07	200	HIJVFH03		

HUVGZ77	909169	1650	HIMMER	PFAM: BTB/POZ domain	PF00651	51.2	110	253
			2.1.1					
			blastx.14	(AB011665) BAZF [Mus	gi 3287501 dbj BAA3	94%	47	301
				musculus]	1223.1	81%	295	366
ноунс93	908555	1653	HMMER 2.1.1	PFAM: KRAB box	PF01352	. 152.7	147	335
			blastx.14	ha0946 protein is	gi 498152 dbj BAA06	64%	135	362
				Kruppel-related. [Homo	541.1	25%	72	131
				sapiens]				
HVCAZ38	969208	1659	blastx.2	(AK000496) unnamed	dbj BAA91205.1	64%	395	159
				protein product [Homo		15%	151	110
				sapiens]				
HVVBK72	933167	1668	HMMER	PFAM: UDP-	PF00201	70.01	2	391
			1.8	glucoronosyl and UDP-		,		
				glucosyl transferases				
HWLHJ68	957834	1671	HIMIMER	PFAM: Zinc finger, C2H2	PF00096	6.35	216	278
			1.8	type				
			blastx.14	(AB012265) wizL [Mus	gi 3551182 dbj BAA3	%55	201	314
				musculus]	2790.1	39%	101	169
HVVBY08	957658	1673	HMMER 2.1.1	PFAM: Sm protein	PF01423	79.4	134	355
			blastx.14	(AC005258) R30783 1	gi 3289993 gb AAC2	%16	185	403
				[Homo sapiens]	5622.1	100%	130	195
HUVGP05	930892	1677	blastx.14	(AF091457) zinc finger	gi 4557143 gb AAD2	82%	231	398
				protein RIN ZF [Rattus	2522.1 AF091457_1	100%	217	246
			•	norvegicus]				
HUVFI01	945834	1679	blastx.2	similar to human TRAMP	dbj BAA06540.1	%86	103	1212
				protein. [Homo sapiens]				
HUNAF20	961527	1693	blastx.14	(AF184971) cytokine	gj6013325jgb AAF01	100%	382	278

	94	361	588		314	345	589					163	118	401	336	468	938	720		272	272
	2	729	118		3	587	999					462	195	282	64	373	783	286		21	21
	100%	82.96	100%		47%	35%	20%					45%	792	79.1	%69	%89	%9L	71%		40%	39%
320.1 AF184971_1	gil4929649 gb AAD3 4085.1 AF151848_1	PF00089	gb AAF22500.1 AF1 00707_1		gi 861294 gb AAA68 328.1	emb CAB04553.1					•	gi 3851160 gb AAC7	2234.1	PF01352	gi 2749982 gb AAB9	5172.1	gj 595481 gb AAA56	720.1		emb CAA07188.1	
receptor homolog 1	(AF151848) CGI-90 protein [Homo sapiens]	PFAM: Trypsin	(AF100707) testes- specific protein TSP50	[Homo sapiens]	F35D2.4 gene product [Caenorhabditis elegans]	cDNA EST yk338f6.5	comes from this gene;	cDNA EST	EMBL:D75296 comes	from this gene	[Caenorhabditis elegans]	(AF092091) cp431	[Rattus norvegicus]	PFAM: KRAB box	(AF036705) Similar to	phytoene desaturase; coded for 1 1 1 coded for	acetylcholine receptor	alpha 9 subunit [Rattus	rattus	(AJ006692) ultra high	sulfer keratin [Homo sapiens]
	blastx.14	HMMER 1.8	blastx.2		blastx.14	blastx.2						blastx.14		HMMER 2.1.1	blastx.14		blastx.14			blastx.2	
	9691	1710			1713	1744						1748		1762	1771		2662			1797	
	921132	957456			968333	869612						926772		460948	932997		946914			945862	·
	HUNAE02	HUKEP18			HUKDG10	HTTJN26						HTTIR04		HTTDM42	HTTBP62		HTLHK57			HTLHB93	

HTLGS10	963458	1799	blastx.14	pro-alpha-2(I) collagen	gil50489 emb CAA41	34%	108	212
				[Mus musculus]	205.1	20%	380	433
						79%	186	320
						53%	302	340
HTLEQ92	932882	1804	blastx.14	(AL117444) hypothetical	gi 5911890 emb CAB	100%	9	107
				protein [Homo sapiens]	55929.1	100%	203	256
						36%	213	269
HTLEN77	772363	1806	HMMER 1.8	PFAM: EF hand	PF00036	26.93	294	380
HTLDZ81	778180	1810	HMMER 1.8	PFAM: Tubulin	PF00091	12.29	156	245
HTLDW27	961353	1811	blastx.14	(AF014461) EXO70	gi 2352998 gb AAB6	%56	239	601
				protein [Mus musculus]	9345.1	100%	186	236
						%88	9/	126
						%9/	_	51
						63%	36	89
HTLBH67	751985	1821	HMMER 1.8	PFAM: Src homology domain 3	PF00018	37.78	16	162
HTFBE02	920507	1830	HMMER	PFAM: Isopentenyl-	PF01772	92.6	103	291
			2.1.1	dipnospnate delta- isomerase				
HTEQN83	908528	1834	HIMIMER	PFAM: KRAB box	PF01352	7.86	81	203
			2.1.1					
			blastx.14	(AL080125) hypothetical	gi 5262560 emb CAB	62%	75	251
				protein [Homo sapiens]	45723.1	%99	39	74
HTEPE35	948475	1838	HIMIMER	PFAM:	PF00387	163.8	839	507
	•		2.1.1	Phosphatidylinositol-				
				specific phospholipase C,				
	_	_		т долган				

		97% 165 374 27.8 154 315	165 154 604 209	165 154 154 604 209 395 482 424 214	165 154 154 604 604 209 395 482 482 424 214 214 214 85	165 154 154 604 209 395 482 482 424 214 214 200 602 85	165 154 154 604 209 395 482 424 214 300 602 85 85	165 154 154 604 209 395 482 424 214 214 210 602 85 6 6	165 154 154 604 209 395 482 424 214 214 300 602 85 85 6
			27.8 114.85 49% 29%	27.8 114.85 49% 29% 82% 65% 87%	27.8 114.85 49% 29% 82% 65% 87% 77% 70% 53% 52%	27.8 114.85 29% 29% 65% 87% 77% 77% 52% 52%	27.8 114.85 29% 29% 82% 65% 87% 77% 70% 53% 53% 53%	27.8 114.85 114.85 29% 65% 87% 77% 77% 77% 38.5 38.5 38.5	27.8 114.85 29% 65% 87% 77% 77% 53% 53% 53% 53% 53% 53% 53% 53% 53% 53
gi 4186073 emb CAA	2.1	69(	)69 )69 \B03535.1	PF00069  PF00069  gb AAB03535.1  gi 854733 gb AAC52 200.1	)69 JB03535.1  733 gb AAC52	069  \text{AB03535.1}  \text{733 gb AAC52}  \text{CC53331.1}	069  JB03535.1  T33 gb AAC52 C53331.1  S67	PF00069  PF00069  gb AAB03535.1  gi 854733 gb AAC52 200.1  PF00567  PF00651 gi 3860089 gb AAC7 2973.1	069  \text{AB03535.1}   \text{AB03535.1}   \text{AB035331.1}   \text{AB035331.1}   \text{AB0089}   \text{S51}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}   \text{AB0089}
gi 4186073 en   09423.1	PF00069	٠	gb AAB03535.1						
(AJ010949) calcium channel alpha-2-delfa-C	subunit [Mus musculus] PFAM: Eukaryotic protein	Linear Collians	PFAM: Eukaryotic protein kinase domain MEK Kinase 3 [Mus musculus]	PFAM: Eukaryotic protein kinase domain MEK Kinase 3 [Mus musculus] casein kinase 1 gamma 1 isoform [Rattus norvegicus]	PFAM: Eukaryotic protein kinase domain MEK Kinase 3 [Mus musculus] casein kinase 1 gamma 1 isoform [Rattus norvegicus] (AF016184) putative pheromone receptor [Rattus norvegicus]	PFAM: Eukaryotic protein kinase domain MEK Kinase 3 [Mus musculus] casein kinase 1 gamma 1 isoform [Rattus norvegicus] (AF016184) putative pheromone receptor [Rattus norvegicus] PFAM: Tudor domain	PFAM: Eukaryotic protein kinase domain MEK Kinase 3 [Mus musculus] casein kinase 1 gamma 1 isoform [Rattus norvegicus] (AF016184) putative pheromone receptor [Rattus norvegicus] PFAM: Tudor domain PFAM: BTB/POZ domain	PFAM: Eukaryotic protein kinase domain MEK Kinase 3 [Mus musculus] casein kinase 1 gamma 1 isoform [Rattus norvegicus] (AF016184) putative pheromone receptor [Rattus norvegicus] PFAM: Tudor domain PFAM: BTB/POZ domain inducer of short	PFAM: Eukaryotic protein kinase domain MEK Kinase 3 [Mus musculus] casein kinase 1 gamma 1 isoform [Rattus norvegicus] PFAM: Tudor domain PFAM: BTB/POZ domain PFAM: BTB/POZ domain (AF097916) HIV-1 inducer of short transcripts binding protein [Homo sapiens]
blastx.14 (AJ0100 channel subunit PFAM		HIMMER PFAM:	_					x.14 x.14 AER AER	x.14 AER AER x.14
1839 bla 1852 HIV	7.7	1853 HIN 1.8	bla	1855 bla					
948845	813038	944419		964769	964769	964769 942526 765901	964769 942526 765901 909165	964769 942526 765901 909165	964769 942526 765901 909165
HTEOY82		┢	HIEMOS		0	0	8 6	8 60	8 6

297		303		338			332		454	207	362	115	98	262		122			212		333			496	-	393	•	371
250		52		261			111		624	329	457	216	169	215		81			135		307			443		169		294
20.37		46%		14.18		,	%58		100%	100%	100%	28%	94%	11.67		2.68			21.65		2.84			33%		20.61		9.71
PF00098		gb AAA89198.1		PF00097			gb AAF36134.1 AF1	51048_1	gi 1742347 dbj BAA1	5068.1				PF00046		PF00130			PF00400		PF00130			gi 1345408 dbj BAA0	5046.1	PF00119		PF00397
PFAM: Zinc finger,	CCHC class	nucleic acid binding	protein [Mus sp.]	PFAM: Zinc finger,	C3HC4 type (RING	finger)	(AF151048) HSPC214	[Homo sapiens]	Collagenase precursor	(EC 3.4). [Escherichia	coli]			PFAM: Homeobox	domain	PFAM: Phorbol esters /	diacylglycerol binding	domain	PFAM: WD domain, G-	beta repeats	PFAM: Phorbol esters /	diacylglycerol binding	domain	AT motif-binding factor	[Mus musculus]	PFAM: ATP synthase A	chain	PFAM: WW/rsp5/WWP
HIMMER	1.8	blastx.2		HMMER	1.8		blastx.2		blastx.14			•		HMMER	1.8	HMMER	1.8		HIMIMER	1.8	HMMER	1.8		blastx.14		HIMMER	1.8	HMMER
1935				1952					1982					1983		1993	<u>-</u> ,		2672		2040			2074		2076		2083
908406				628829					936026					727294		575271			939849		660374			202896		929723		922815
HTEDF22				HTECC09					HPWTA06					HPWSA52		HPWAJ39			HPRAG45		HPMGR15			HPLAI10		HPJEV95		HPJDT03

			1.8	domain containing				
				proteins				
HPJDA25	951281	2087	blastx.2	(AF047690) ATP-binding	gb AAD15748.1	73%	291	488
				cassette protein M-ABC1				
				[Homo saptens]				
HPJDA25	951284	2676	blastx.14	(AF047690) ATP-binding	gj 4321407 gb AAD1	87%	219	76
				cassette protein M-ABC1	5748.1			
				[Homo sapiens]				
HPIAQ70	973604	2130	HIMMER	PFAM: Flagella basal	PF00460	41.51	206	298
			1.8	body rod proteins				
			blastx.14	Flagellar hook-associated	gi 1651528 dbj BAA3	%LL	322	498
				protein 1 (hap1).	5891.1	100%	194	322
				[Escherichia coli]		i		
HPCTD03	922149	2191	HMMER	PFAM: Pterin 4 alpha	PF01329	143.1	9	305
			2.1.1	carbinolamine				
				dehydratase				
			blastx.14	pterin-4a-carbinolamine	gi 848985 gb AAA69	979	18	311
				dehydratase [Homo	662.1			
				sapiens]		i		
HPCOV68	911075	2195	blastx.14	(AC004500) GDF-9	gi 2996640 gb AAC0	94%	2	160
				[Homo sapiens]	8450.1			
HPCA089	946913	2196	HMMER	PFAM: Serpins (serine	PF00079	53.12	94	309
			1.8	protease inhibitors)				
			blastx.2	leupin [Homo sapiens]	emb CAA61420.1	39%	82	327
						45%	309	452
HOVEE20	060606	2207	HMMER 2.1.1	PFAM: KRAB box	PF01352	105.4	229	348
			blastx.14	zinc finger protein 30	gi 456269 emb CAA8	%19	193	348
				[Mus musculus	2913.1	33%	367	429

458	204 204 158 5 5 4	438 204 204 5 5 5 5 753	438 204 204 5 5 5 5 753 753 188 191	458 204 204 158 158 5 5 5 753 753 188 191 191	428 204 204 158 5 5 5 753 753 188 191 191 188 191 191	428 204 204 158 158 33 33 188 191 191 190 139
517270179180173702 5677 11						
	gi[3851160 gb AAC7 2234.1  gi[2944187 gb AAC0 5245.1	gi[3851]60 gb AAC7 2234.1  gi[2944187 gb AAC0 5245.1  PF00348 sp G299838 G299838	gi[3851]60 gb AAC7 2234.1  gi[2944187 gb AAC0 5245.1  PF00348 sp G299838 G299838	gi[3851160]gb AAC7 2234.1  gi[2944187]gb AAC0 5245.1  PF00348 sp G299838 G299838	gi[3851]60 gb AAC7 2234.1  gi[2944187 gb AAC0 5245.1  PF00348 sp G299838 G299838 PF00648	gi[3851]60 gb AAC7 2234.1  gi[2944187 gb AAC0 5245.1  PF00348 sp G299838 G299838 PF01265 gi[1209635 gb AAB1 9007.1
	] ve E1-		ve E1-		-1 B 10	
blastx.14 (AF092091) cp431		K.14 AER K.14	K.14 AER K.14	K.14 AER AER AER	K.14 AER AER AER AER	K.14 AER AER K.14 K.14
01431A:14	blastx.14	blastx.14 HMMER 2.1.1 blastx.14	blastx.14 HMMER 2.1.1 blastx.14	blastx.14 HMMER 2.1.1 blastx.14 HMMER 2.1.1	blastx.14 HMMER 2.1.1 blastx.14 HMMER 2.1.1 HMMER 2.1.1	blastx.14 HMMER 2.1.1 blastx.14 HMMER 2.1.1 HMMER 2.1.1 blastx.14
34 2244						
925784	925783	925783 859016 908904	925783 859016 908904	925783 859016 908904	925783 859016 908904	925783
HOOKF04	HOOJN04	HOOJN04 HONAD02 HOGAM56	HOOJN04 HONAD02 HOGAM56	HOOJN04 HONAD02 HOGAM56 HOFNW65	HOOJN04 HOGAM56 HOFNW65	HOOJN04 HOGAM56 HOFNW65 HOFNW07

				[Homo sapiens]		%99	293	319
<u> </u>	835718	2303	HMMER	PFAM: IG	PF00047	11.98	148	291
			1.8	(immunoglobulin)				
	-		blastx	(AF111714) junctional	gb[AAD42051.1 AF1	71%	28	303
				adhesion molecule [Bos	11714_1	94%	306	362
				taurus]	)	33%	306	359
HOFMT55	888552	2311	HMMER 2.1.1	PFAM: Caspase recruitment domain	PF00619	43	111	239
HOFMS43	947973	2313	HMMER	PFAM: Sushi domain	PF00084	64	174	302
			blastx.2	porcine membrane	dbilBAA20476.11	47%	12	317
				cofactor protein [Sus scrofa]				
HOFMP09	943358	2315	HIMMER 2.1.1	PFAM: Immunoglobulin domain	PF00047	27.5	34	144
	•	•	blastx	B-CAM [Homo sapiens]	emb CAA56327.1	%91	31	351
						46%	300	464
					•	85%	473	553
						33%	247	372
						46%	283	327
						43%	91	138
HOFMF82	286869	2317	HMMER 1.8	PFAM: Zinc finger, C2H2 type	PF00096	10.91	44	106
HOFMF82	694062	2688	HMMER	PFAM: Zinc finger, C2H2	PF00096	53.7	372	440
,	0000	00,0	1.1.7	type	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,
HOFMF82	909248	7689	HMMEK   2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	48.3	61	129
			blastx.14	zinc finger protein [Homo	gi 495568 gb AAC50	52%	19	429

				sapiens	264.1	%05	55	429
				•		20%	25	402
						44%	62	429
						28%	4	99
HOFAF25	942367	2320	blastx.2	(AF036696) contains	gb AAB88349.1	39%	289	696
				similarity to Brassica				
				oleracea non-green 1				
				(GB:U13632)				
				[Caenorhabditis elegans]				
HODFF88	974911	2341	HIMMER	PFAM: Eukaryotic protein	PF00069	101.43	86	370
			1.8	kinase domain				
			blastx.14	mixed-lineage protein	pir S32467 JU0229	74%	131	493
				kinase 1 - human		81%	763	921
						30%	751	915
HODFD73	909812	2343	HIMMER	PFAM: GTPase-activator	PF00616	34	190	390
			2.1.1	protein for Ras-like				
				GTPase				
			blastx.14	(AB016962) synGAP-b1	gi[4417207 dbj BAA7	%86	4	480
				[Rattus norvegicus]	4972.1			
HODCZ64	745966	2357	blastx.2	elastin like protein	emb CAA59990.1	75%	3	98
				[Drosophila melanogaster]		45%	364	405
						42%	358	399
HODAK55	745532	2383	HIMIMER	PFAM: ATPases	PF00004	69'09	11	157
			1.8	associated with various		-		
				cellular activities (AAA)				-
носрн02	917453	2400	HIMMER	PFAM: Zinc finger,	PF00097	8.27	265	309
			1.8	C3HC4 type (RING				
				finger)				
HNIAB26	974750	2412	blastx.14	PR-1-like protein	gi[166861]gb[AAA32	37%	388	143

				[Arabidopsis thaliana]	863.1			
<u> </u>	915399	2419	blastx.14	(AL117637) hypothetical protein [Homo sapiens]	gi 5912226 emb CAB 56026.1	94%	155	328
	869611	2443	HIMMER 1.8	PFAM: Src homology domain 3	PF00018	3.29	350	379
_	931387	2445	blastx.14	(AF070657) glutathione	gi 4454690 gb AAD2	93%	68	286
				S-transferase subunit 13	0963.1	75%	486	533
	941397	2692	HMMER 1.8	PFAM: Integrins alpha chain	PF00357	163.29	115	459
	959139	2448	HMMER 1.8	PFAM: Ank repeat	PF00023	13.97	3	44
	971312	2693	HMMER 2.1.1	PFAM: Leucine rich repeat C-terminal domain	PF01463	51.7	317	466
			blastx.2	(AF133270) SLIT2	gb AAD25539.1 AF1	%68	77	565
				[Homo sapiens]	33270_1	37%	11	481
_						35%	92	505
						30%	92	553
_						72%	495	524
_						21%	493	534
	961623	2466	blastx.14	(AB016088) RNA binding protein [Homo sapiens]	gi 5821145 dbj BAA8 3714.1	75%	321	1
	292606	2471	HMMER 1.8	PFAM: Eukaryotic protein kinase domain	PF00069	143.18	9	416
			blastx.14	similar to cAMP-	gi 3878636 emb CAA	26%	9	416
				dependant protein kinase;	88953.1			
	827570	2483	blooty 14	(AE151823) CCI 75	000 1 1 10 10 00 00 11 1			
	902020	7403	olastx.14	(Art 151833) CGI-/5 nrotein [Homo saniens]	gi 4929619 gb AAD3	% % 71,6 71,6 71,6 71,6 71,6 71,6 71,6 71,6	347	526
1				Lorent Lander Cupy Cupy I	10/01/11/11/10/04	1/70	/ 47	339

365	262	422	266	162	444	546	232	387		148	325	236	42	262	293	255	205	208	76	259	282	295	342
318	215	892	343	13	319	463	203	524		95	302	201	-	230	252	229	98	98	<b>∞</b>	206	94	260	178
93%	81%	73%	%69	24.44	38%	39%	40%	%16		44%	81%	20%	20%	45%	21%	%99	12.2	39%	39%	33%	82%	75%	59.48
		gi 4929709 gb AAD3	4115.1 AF151878_1	PF00141	gil3116115 emb CAA	18866.1		gi 5231135 gb AAD4	1087.1 AF153605_1	gi 4760337 emb CAB	39078.2				gi]3873667 emb CAA	94874.1	PF00061	gi 56117 emb CAA42	493.1		gi 5225322 gb AAD4	0851.1 AF083108_1	PF00018 ·
		(AF151878) CGI-120	protein [Homo sapiens]	PFAM: Peroxidases	(AL023286) hypothetical	protein	[Schizosaccharomyces pombe]	(AF153605) androgen	induced protein [Homo sapiens]	(AL034368) predicted	using hexExon; L779.3, 1				similar to collagen	[Caenorhabditis elegans]	PFAM: lipocalins	epididymal secretory	protein I (ESP I) [Rattus	norvegicus]	(AF083108) sirtuin type 3	[Homo sapiens]	PFAM: Src homology domain 3
		blastx.14		HMMER 1.8	blastx.14			blastx.14		blastx.14					blastx.14		HMMER 1.8	blastx.14			blastx.14		HMMER 1.8
		2488		2492	2500			2502		2513					2516		2525				2533		2554
		924849		827915	914044	<u></u>		941270		933091					922550		912065				930810		925952
		HEQCC01		HEQBG85	HEQAD73			HEPCB04		HEPAJ04					HEGBC03		HEEAX09				HEEAG51		HCOMM05

			blastx.2	epidermal growth factor	gb AAA62280.1	46%	445	840
				receptor kinase substrate		43%	115	435
				[Homo sapiens]		23%	43	222
HCHOX63	957690	2556	blastx.14	CDC42 GTPase-	gi 409027 gb AAA16	64%	112	597
-			•	activating protein [Homo sapiens]	142.1	78%	661	702
HCHNW48	862478	2557	HMMER 1.8	PFAM: Laminin B (Domain IV)	PF00052	1.52	230	289
HCHMW18	586996	2559	blastx.14	(AB017614) OASIS	gi 4519621 dbj BAA7	100%	538	386
				protein [Mus musculus]	5670.1	%89	440	222
						39%	308	240
HCHMI15	935298	2562	blastx.14	PSD-95/SAP90-associated	gi 1864093 gb AAB4	25%	181	285
				protein-4 [Rattus	8590.1	75%	682	825
				norvegicus]		91%	584	691
						20%	620	<b>L</b> 99
HCHAI62	743411	2570	HMIMER	PFAM: Core histones	PF00125	8.45	2	9/
			1.8	H2A, H2B, H3 and H4				
HCDMC22	672815	2578	HMMER 1.8	PFAM: Core histones	PF00125	9.49	182	241
Country Court	22,200	2,70	TIL O UT	בין חוש כין לקבין ליקדון	000000		,	
HBG11/6	903033	7019	HMMEK 2.1.1	PFAM: Ank repeat	PF00023	62.3	197	295
			blastx.14	(AJ133120) Proline rich	gi 5262748 emb CAB	72%	131	556
				synapse associated protein	45688.1	47%	499	561
				2 [Rattus norvegicus]				
HBGMT82	954374	2624	blastx.14	(AJ004801) very large	gi 2653311 emb CAA	37%	187	267
				virion protein (tegument)	06097.1	35%	91	201
	-			[Bovine herpesvirus type		32%	91	201
HBGDF39	861602	2631	HMMER	PFAM: Response	PF00072	44.82	158	355

			1.8	regulator receiver domain				
			2:1	6.0		0.77	17	150
HBCPV80	932817	2639	HIMMER	HMMER   PFAM: WW domain	PF00397	04.7	7	001
			2.1.1					
					CD 4 4 1 1 1 2 000 12 01.	10001	~	100
HAOCD07	958959	2649	blastx.14	blastx.14   (AC005581) R31237_1,	gl3510234 gp AAC3	10078	<b>-</b>	001
				partial CDS [Homo	3487.1			
				saniens				
				Towns don				

[075] Table 2 further characterizes certain encoded polypeptides of the invention, by providing the results of comparisons to protein and protein family databases. The first column provides a unique clone identifier, "Clone ID NO:", corresponding to a cDNA clone disclosed in Table 1A. The second column provides the unique contig indentifier, "Contig ID:" which allows correlation with the information in Table 1A. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the row was determined. The fifth column provides a description of PFam/NR hits having significant matches identified by each analysis. Column six provides the accession number of the PFam/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Comparisons were made between polypeptides encoded by polynucleotides of the invention and a nonredundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFam"), as described below.

The NR database, which comprises the NBRF PIR database, the NCBI [076] GenPept database, and the SIB SwissProt and TrEMBL databases, was made nonredundant using the computer program nrdb2 (Warren Gish, Washington University in Saint Louis). Each of the polynucleotides shown in Table 1A, column 3 (e.g., SEQ ID NO:X or the 'Query' sequence) was used to search against the NR database. The computer program BLASTX was used to compare a 6-frame translation of the Query sequence to the NR database (for information about the BLASTX algorithm please see Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)). A description of the sequence that is most similar to the Query sequence (the highest scoring 'Subject') is shown in column five of Table 2 and the database accession number for that sequence is provided in column six. The highest scoring 'Subject' is reported in Table 2 if (a) the estimated probability that the match occurred by chance alone is less than 1.0e-07, and (b) the match was not to a known repetitive element. BLASTX returns alignments of short polypeptide segments of the Query and Subject sequences which share a high degree of similarity; these segments are known as High-Scoring Segment Pairs or HSPs. Table 2 reports the degree of similarity

between the Query and the Subject for each HSP as a percent identity in Column 7. The percent identity is determined by dividing the number of exact matches between the two aligned sequences in the HSP, dividing by the number of Query amino acids in the HSP and multiplying by 100. The polynucleotides of SEQ ID NO:X which encode the polypeptide sequence that generates an HSP are delineated by columns, 8 and 9 of Table 2.

[077] The PFam database, PFam version 5.2, (Sonnhammer et al., Nucl. Acids Res., 26:320-322, (1998)) consists of a series of multiple sequence alignments; one alignment for each protein family. Each multiple sequence alignment is converted into a probability model called a Hidden Markov Model, or HMM, that represents the position-specific variation among the sequences that make up the multiple sequence alignment (see, e.g., R. Durbin et al., Biological sequence analysis: probabilistic models of proteins and nucleic acids, Cambridge University Press, 1998 for the theory of HMMs). The program HMMER version 1.8 (Sean Eddy, Washington University in Saint Louis) was used to compare the predicted protein sequence for each Query sequence (SEQ ID NO:Y in Table 1A) to each of the HMMs derived from PFam version 5.2. A HMM derived from PFam version 5.2 was said to be a significant match to a polypeptide of the invention if the score returned by HMMER 1.8 was greater than 0.8 times the HMMER 1.8 score obtained with the most distantly related known member of that protein family. The description of the PFam family which shares a significant match with a polypeptide of the invention is listed in column 5 of Table 2, and the database accession number of the PFam hit is provided in column 6. Column 7 provides the score returned by HMMER version 1.8 for the alignment. Columns 8 and 9 delineate the polynucleotides of SEQ ID NO:X which encode the polypeptide sequence which shows a significant match to a PFam protein family.

[078] As mentioned, columns 8 and 9 in Table 2, "NT From" and "NT To", delineate the polynucleotides of "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFam/NR database as disclosed in the fifth column of Table 2. In one embodiment, the invention provides a protein comprising, or alternatively consisting of, a polypeptide encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table 2. Also provided are polynucleotides encoding such proteins, and the complementary strand thereto.

[079] The nucleotide sequence SEQ ID NO:X and the translated SEQ ID NO:Y are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, the nucleotide sequences of SEQ ID NO:X are useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in Clone ID NO:Z. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used to generate antibodies which bind specifically to these polypeptides, or fragments thereof, and/or to the polypeptides encoded by the cDNA clones identified in, for example, Table 1A.

- [080] Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).
- [081] Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and a predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing cDNA Clone ID NO:Z (deposited with the ATCC on October 5, 2000, and receiving ATCC designation numbers PTA 2574 and PTA 2575; deposited with the ATCC on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2; and/or as set forth, for example, in Table 1A, 6 and 7). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X.

[082] The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular clone can also be directly determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining its sequence.

## RACE Protocol For Recovery of Full-Length Genes

Partial cDNA clones can be made full-length by utilizing the rapid [083] amplification of cDNA ends (RACE) procedure described in Frohman, M.A., et al., Proc. Nat'l. Acad. Sci. USA, 85:8998-9002 (1988). A cDNA clone missing either the 5' or 3' end can be reconstructed to include the absent base pairs extending to the translational start or stop codon, respectively. In some cases, cDNAs are missing the start codon of translation. The following briefly describes a modification of this original 5' RACE procedure. Poly A+ or total RNA is reverse transcribed with Superscript II (Gibco/BRL) and an antisense or complementary primer specific to the cDNA sequence. The primer is removed from the reaction with a Microcon Concentrator (Amicon). The first-strand cDNA is then tailed with dATP and terminal deoxynucleotide transferase (Gibco/BRL). Thus, an anchor sequence is produced which is needed for PCR amplification. The second strand is synthesized from the dA-tail in PCR buffer, Taq DNA polymerase (Perkin-Elmer Cetus), an oligo-dT primer containing three adjacent restriction sites (XhoI, SalI and ClaI) at the 5' end and a primer containing just these restriction sites. This double-stranded cDNA is PCR amplified for 40 cycles with the same primers as well as a nested cDNA-specific antisense primer. The PCR products are size-separated on an ethidium bromideagarose gel and the region of gel containing cDNA products the predicted size of missing protein-coding DNA is removed. cDNA is purified from the agarose with the Magic PCR Prep kit (Promega), restriction digested with XhoI or SalI, and ligated to a plasmid such as pBluescript SKII (Stratagene) at XhoI and EcoRV sites. This DNA is transformed into bacteria and the plasmid clones sequenced to identify the correct protein-coding inserts. Correct 5' ends are confirmed by comparing this sequence with the putatively identified homologue and overlap with the partial cDNA clone. Similar

methods known in the art and/or commercial kits are used to amplify and recover 3' ends.

[084] Several quality-controlled kits are commercially available for purchase. Similar reagents and methods to those above are supplied in kit form from Gibco/BRL for both 5' and 3' RACE for recovery of full length genes. A second kit is available from Clontech which is a modification of a related technique, SLIC (single-stranded ligation to single-stranded cDNA), developed by Dumas et al., Nucleic Acids Res., 19:5227-32 (1991). The major differences in procedure are that the RNA is alkaline hydrolyzed after reverse transcription and RNA ligase is used to join a restriction site-containing anchor primer to the first-strand cDNA. This obviates the necessity for the dA-tailing reaction which results in a polyT stretch that is difficult to sequence past.

[085] An alternative to generating 5' or 3' cDNA from RNA is to use cDNA library double-stranded DNA. An asymmetric PCR-amplified antisense cDNA strand is synthesized with an antisense cDNA-specific primer and a plasmid-anchored primer. These primers are removed and a symmetric PCR reaction is performed with a nested cDNA-specific antisense primer and the plasmid-anchored primer.

## RNA Ligase Protocol For Generating The 5' or 3' End Sequences To Obtain Full Length Genes

[086] Once a gene of interest is identified, several methods are available for the identification of the 5' or 3' portions of the gene which may not be present in the original cDNA plasmid. These methods include, but are not limited to, filter probing, clone enrichment using specific probes and protocols similar and identical to 5' and 3' RACE. While the full length gene may be present in the library and can be identified by probing, a useful method for generating the 5' or 3' end is to use the existing sequence information from the original cDNA to generate the missing information. A method similar to 5' RACE is available for generating the missing 5' end of a desired full-length gene. (This method was published by Fromont-Racine et al., Nucleic Acids Res., 21(7):1683-1684 (1993)). Briefly, a specific RNA oligonucleotide is ligated to the 5' ends of a population of RNA presumably containing full-length gene RNA transcript. A primer set containing a primer specific to the ligated RNA oligonucleotide and a primer specific to a known sequence of the gene of interest, is

used to PCR amplify the 5' portion of the desired full length gene which may then be sequenced and used to generate the full length gene. This method starts with total RNA isolated from the desired source, poly A RNA may be used but is not a prerequisite for this procedure. The RNA preparation may then be treated with phosphatase if necessary to eliminate 5' phosphate groups on degraded or damaged RNA which may interfere with the later RNA ligase step. The phosphatase, if used, is then inactivated and the RNA is treated with tobacco acid pyrophosphatase in order to remove the cap structure present at the 5' ends of messenger RNAs. This reaction leaves a 5' phosphate group at the 5' end of the cap cleaved RNA which can then be ligated to an RNA oligonucleotide using T4 RNA ligase. This modified RNA preparation can then be used as a template for first strand cDNA synthesis using a gene specific oligonucleotide. The first strand synthesis reaction can then be used as a template for PCR amplification of the desired 5' end using a primer specific to the ligated RNA oligonucleotide and a primer specific to the known sequence of the reproductive system antigen of interest. The resultant product is then sequenced and analyzed to confirm that the 5' end sequence belongs to the relevant reproductive system antigen.

[087] The present invention also relates to vectors or plasmids, which include such DNA sequences, as well as the use of the DNA sequences. The material deposited with the ATCC (deposited with the ATCC on October 5, 2000, and receiving ATCC designation numbers PTA 2574 and PTA 2575; deposited with the ATCC on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2; and/or as set forth, for example, in Table 1A, 6 and 7) is a mixture of cDNA clones derived from a variety of human tissue and cloned in either a plasmid vector or a phage vector, as shown, for example, in Table 7. These deposits are referred to as "the deposits" herein. The tissues from which some of the clones were derived are listed in Table 7, and the vector in which the corresponding cDNA is contained is also indicated in Table 7. The deposited material includes cDNA clones corresponding to SEO ID NO:X described, for example, in Table 1A (Clone ID NO:Z). A clone which is isolatable from the ATCC Deposits by use of a sequence listed as SEQ ID NO:X, may include the entire coding region of a human gene or in other cases such clone may include a substantial portion of the coding region of a human gene. Furthermore,

although the sequence listing may in some instances list only a portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within the ability of one skilled in the art to sequence the DNA included in a clone contained in the ATCC Deposits by use of a sequence (or portion thereof) described in, for example Tables 1A or 2 by procedures hereinafter further described, and others apparent to those skilled in the art.

- [088] Also provided in Table 7 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is provided for convenience.
- [089] Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128,256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., Nucleic Acids Res. 16:7583-7600 (1988); Alting-Mees, M. A. and Short, J. M., Nucleic Acids Res. 17:9494 (1989)) and pBK (Alting-Mees, M. A. et al., Strategies 5:58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene. Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into E. coli strain XL-1 Blue, also available from Stratagene.
- [090] Vectors pSport1, pCMVSport 1.0, pCMVSport 2.0 and pCMVSport 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., *Focus* 15:59- (1993). Vector lafmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into *E. coli* strain XL-1 Blue. Vector pCR®2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., Nuc. Acids Res. 16:9677-9686 (1988) and Mead, D. et al., Bio/Technology 9: (1991).

[091] The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the deposited clone (Clone ID NO:Z). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include preparing probes or primers from the disclosed sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

- [092] Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of reproductive system associated genes corresponding to SEQ ID NO:X or the complement thereof, polypeptides encoded by SEQ ID NO:X or the complement thereof, and/or the cDNA contained in Clone ID NO:Z, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.
- [093] The polypeptides of the invention can be prepared in any suitable manner. Such polypeptides include isolated naturally occurring polypeptides, recombinantly produced polypeptides, synthetically produced polypeptides, or polypeptides produced by a combination of these methods. Means for preparing such polypeptides are well understood in the art.
- [094] The polypeptides may be in the form of the secreted protein, including the mature form, or may be a part of a larger protein, such as a fusion protein (see below). It is often advantageous to include an additional amino acid sequence which contains secretory or leader sequences, pro-sequences, sequences which aid in purification, such as multiple histidine residues, or an additional sequence for stability during recombinant production.
- [095] The polypeptides of the present invention are preferably provided in an isolated form, and preferably are substantially purified. A recombinantly produced version of a polypeptide, including the secreted polypeptide, can be substantially purified using techniques described herein or otherwise known in the art, such as, for example, by the one-step method described in Smith and Johnson, Gene 67:31-40 (1988).

Polypeptides of the invention also can be purified from natural, synthetic or recombinant sources using techniques described herein or otherwise known in the art, such as, for example, antibodies of the invention raised against the reproductive system polypeptides of the present invention in methods which are well known in the art.

[096] The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA sequence contained in Clone ID NO:Z. The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X or a complement thereof, a polypeptide encoded by the cDNA contained in Clone ID NO:Z, and/or the polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, a polypeptide encoded by the cDNA contained in Clone ID NO:Z and/or a polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of, the complement of the nucleic acid sequence of SEQ ID NO:X, a nucleic acid sequence encoding a polypeptide encoded by the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA contained in Clone ID NO:Z.

[097] Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in Table 1B column 6, or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in Table 1B column 6, or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides

of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

Further, representative examples of polynucleotides of the invention comprise, [098] or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different

from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

Further, representative examples of polynucleotides of the invention comprise, [099] or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (See Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and

variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

Moreover, representative examples of polynucleotides of the invention [0100] comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. In preferred embodiments, the polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, wherein sequentially delineated sequences in the table (i.e. corresponding to those exons located closest to each other) are directly contiguous in a 5' to 3' orientation. In further embodiments, above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[0101] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B, and the

polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1B, column 2) or fragments or variants thereof. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same Clone ID NO:Z. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[0103] In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of column 6 of Table 1B, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same row of column 6 of Table 1B. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[0104] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of the sequence of SEQ ID NO:X are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-

described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[0105] In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X are directly contiguous Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[0107] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or

alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides, are also encompassed by the invention.

[0108] In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[0109] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same Clone ID NO:Z (see Table 1B, column 1) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[0110] In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one sequence in column 6 corresponding to the same contig sequence identifer

SEQ ID NO:X (see Table 1B, column 2) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[0111]In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3'10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same row are directly contiguous. In preferred embodiments, the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B is directly contiguous with the 5' 10 polynucleotides of the next sequential exon delineated in Table 1B, column 6. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the abovedescribed polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[0112] Many polynucleotide sequences, such as EST sequences, are publicly available and accessible through sequence databases and may have been publicly available prior to conception of the present invention. Preferably, such related polynucleotides are specifically excluded from the scope of the present invention. Accordingly, for each contig sequence (SEQ ID NO:X) listed in the third column of Table 1A, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, b is an integer of 15 to the final nucleotide of SEQ ID NO:X, where both a and b correspond to the positions

of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. More specifically, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a and b are integers as defined in columns 4 and 5, respectively, of Table 3. In specific embodiments, the polynucleotides of the invention do not consist of at least one, two, three, four, five, ten, or more of the specific polynucleotide sequences referenced by the Genbank Accession No. as disclosed in column 6 of Table 3 (including for example, published sequence in connection with a particular BAC clone). In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table (including for example, the actual sequence contained in an identified BAC clone). In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula, it is just a representative example. All references available through these accessions are hereby incorporated by reference in their entirety.

## TABLE 3

PCT/US01/01339

_		_	_						_																								
	Accession #'s		AI139000, AA884996, AA889649, and AA724461.	AW182856, AI218191, AA834537, AA804628, AA827835, AF034780, and E07989.	AI681511, AA677498, AI799484, AI360937, AI378075, AI457270, AI363333, AI681227,	AI806180, AI363339, AA972313, AA627925, AI984311, AA483815, N25951, AI250808,	Al417147, AW297301, AI079688, AW009637, AI289263, AA768395, AA769533, AW085089,	AW368116, AW067835, AI110587, N26848, W15533, AI129095, AW298190, AI300955,	AI870137, AW410019, AI808400, AA748383, AA479673, AW269239, AA281561, AA807144,	AW291197, AW373450, and N42781.	H93040, H93056, AA719305, AA808945, AI342677, AA742815, AC006581, AP000045,	AP000113, AC007684, AC002404, AC003070, AC003042, AP000327, AC003043, AC005829,	AB023048, AP000123, AP000170, AP000055, AC007066, AC002350, AC005399, AL135744,	AC005031, AF001549, AC004913, Z95114, AL031663, AL008729, Z97054, AL133355,	AC000381, AC005207, AC009516, U80017, Z81370, AC006023, AC006449, AC005296,	AC005069, AC000118, AC004821, AC006146, AC005037, AC006441, AL109798, AL031432,	AL080243, AC004819, AL109627, AC002477, and AC004882.					AW168869, and AI904433.		AW419224, AW419225, and AW419223.	AL119483, AA809125, AL119444, AA835346, AA188940, AC016027, AC016830, AC005529,	AC005261, AC004531, AC005255, AC006137, AC006080, AL049874, AL132777, L44140,	AL031983, AC006515, AC004659, Z85987, AC005531, AF134726, AC006441, AC004858,	AF053356, AP000552, AC005740, AP000503, AC012627, AC004882, AC003108, AC007934,	AL049758, AC005181, AF109907, AC004033, AC005091, AC007685, AC005971, AC003663,	AC005274, AC005089, AL049829, AC006449, U96629, AC004973, AL049872, AC007283,	AC005057, AC004231, AL035413, AL078638, AC006023, AC005815, AL031311, AL023803,	AC005821, AL049780, AL031228, AC005919, AP000555, AL049631, AC004895, AC005072,	AC005/36, AL021155, AL022165, AL133448, AL133245, AC007055, AL008718, AC004526.
	isclaimer Range of b	15 - 73	15 - 162	15 - 606	15 - 708						15 - 742							15 - 361	15 - 70	15 - 423	15 - 97	15 - 724	15 - 135	15 - 338	15 - 506								
	EST Disc Range of a	1 - 59	1 - 148	1 - 592	1 - 694						1 - 728							1 - 347	1 - 56	1 - 409	1 - 83	1 - 710	1 - 121	1 - 324	1 - 492								
	Contig ID:	928554	722780	847688	952380						764671							.664979	783259	839982	522004	847519	529711	968339	957826								
SEQ	NO:	11	12	13	14				<del></del>	[;	15				_			16	17	18	19	20	21	22	23								1
	Clone ID NO: Z	H7MCE35	H7MDC49	H7MDD72	HAOSH55						HAQAK73							HAQAM17	HAQBF84	HAQBJ71	HAQBQ50	HAQBS37	HAUBD69	HAUBU10	HBCJS08								

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AC007065, AL049776, U07563, AL035681, AP000114, AP000046, AF205588, AC005231, AC005841, AC004491, AC007193, AC007878, AL031591, AF038458, AL049869, AC012384, AC003002, AL133485, AL109984, AC004983, AL121653, AC005049, AC005839, AC002418, AC004386, D84401, AC00307, AC002091, AL049538, AC00270, AF045555, Z93244, AC006468, AL022316, AC006141, AC004884, AC004884, AL031427, AD000092, AC005051, AC005081, AL079295, AC002425, AB026898, AC004985, AL035072, AC005484, AC004816, AC005914, AL121754, AC004890, AC005746, AL121757, Z86090, AL109627, AL133163, AC000003, AC009721, Z82250, AC07057, and AC005071.	15 - 141	15 - 138 AW392670, Z99396, AL119319, AL036418, AL036858, AW372827, AW384394, AL119457, AL119483, AL119483, AL119484, AL119484, AL119391, AL119497, AL119522, U46351, AL119418, AL119355, AL119443, AL119363, AL037094, AL119341, U46341, AL134902, AL119396, U46349, AL119401, U46350, U46347, AL037251, AL037205, AL119335, AL119496, AL119439, AL134536, AL036196, AL134920, AL042984, AL037051, AL042965, AL042975, AL036725, AL042544, AA631969, AL119399, AL134538, U46345, AL042542, AL043029, AL042450, AL043003, AL036924, AL037526, AL119464, AR066494, AR060234, AR1671, AB026436, AD001527, AR054110, AR023813, AR064707, and AR069079.	15 - 521 AA191298, AW364854, AI205727, R16601, and AI188004.	15 - 621 AA703200, W88470, and Z39990.	15-328	15 - 254	15 - 703 N33183, AA169202, AI393342, AW172574, AA731731, AI961101, AA872188, W17122, AI219418, AA609341, AA485152, AW293905, AI221103, AI910881, AW195626, AA856740, AA767183, AW072218, AA929018, AI338682, AA836394, AA448345, AW293908, AI264116, W26762, AA766127, AA761418, H30745, AA315954, AI022328, AI032738, AI203338, AI768542, AI979322, AA470714, AA303837, AA992529, AA764904, AA627584, AA769119, AA169659, AI217749, W70324, AA333338, AI250852, AI635634, AI147877, AI382313, AI377000, AI520946, AI955310, AL036241, AI638523, AI589668, AA814517, AA001397, AL096773, AF122922, and Y14314.	15 - 197 AI863446, AI188331, AW014913, AI073437, AW291378, AI130693, AI768987, and AA890464.	15-417 AA229977, N41881, N23545, H78888, H54240, AW270016, and AA569612.	15 - 332	
	1 - 127	1 - 124	1 - 507	1 - 607	1 - 314	1 - 240	1 - 689	1 - 183	1 - 403	1-318	
	963634	922401	951787	930682	525846	957870	922396	524532	954299	525352	
	24	25	56	27	28	29		31	32	33	
	HBCPD14	нвсолоз	HBCQS90	нвсоѕ93	HBGBD28	HBGBF56	HBGBG42	нвсвн43	HBGBS07	HBGBT79	

AI868311, AI203915, AW182104, AW014255, AI766481, AI821507, AA548667, AA194990, AF061970, U81600, and X52875.					AI567076, AW270343, AA169263, AW275510, AI801482, AA362511, AI933534, AA847499,	AA580808, AA226363, AA502104, AI311927, AA569471, AL042753, AL048925, AA502860,	A1133297, A1499588, AW021583, AA531079, AW248819, F25733, AW341900, AA101689,	R86151, AA494102, AA482923, AA715255, AA715267, AA516222, AA758934, AI783494, .	AA602047, AI751216, AA664909, T60681, AA320966, AL119691, AA428792, AA828042,	A1445674, AW062724, AA493695, AW302013, AA469451, AI281881, AW193461, AI919265,	AA484679, AA632612, AI085719, AA601202, AA653375, AA491862, AA713891, AI687343,	AA491650, AI584186, AA468456, AA757775, AW438643, AL036037, AA577959, AI873990,	AA568869, AA515334, AA668807, AA508359, AI872020, AW023990, AA643455, AI282511,	AA658362, AA724333, H73082, AI538870, AW073060, AA908687, AA487621, AA493621,	AA620467, AI471887, AI368256, AI240168, AI345157, AL038705, AA683238, AI568678,	H71429, AA662225, AA470969, AI797903, AA488746, AA719292, AA846952, AA804925,	AW084466, F27407, AA837791, AIS89461, AA747594, AI933299, AI564454, AI924872,	AAS72713, AI708139, AA490183, AA019312, AIS83283, AI054343, AL042547, AW274349,	AA811153, AA446544, F17555, AA368059, AW050498, AI338350, AA478355, AA773472,	AA634889, AA502155, AA665021, AI247199, AI559251, R02632, AA484373, AW050734,	AW235497, R40056, AW193265, AW273218, AW021207, AI472222, AA633753, AW408047,	AW303196, AI350211, AW301809, AA668639, AA584581, AA573725, AW247819, AI669453,	AA805846, T06754, T09071, AA623002, AW104030, AA806796, AA773902, AA577906,	AI625647, AA515909, AI521679, AW302903, AA483223, AI801600, AA581903, AW075948,	AI692808, AA503600, AI284640, AI589230, AI744995, AI860013, AW407578, AA629874,	AW327868, AI702314, AA181823, AA704009, AA189117, AA743716, AL135377, AL044858,	A1859742, AA179944, A1110844, A1110770, AW300625, A1754658, AL119984, A1354388,	A1285576, A1873852, A1903462, AA487417, N64587, AW131155, AW301350, AA578861,	AA493708, AW196064, AI241821, AL119166, T74382, AI807762, AI381253, AA828767,	A1656840, AA501615, AA758366, AL078634, U82671, AP000569, AP000301, AC006255,	AP000114, AP000045, AC005668, AC007556, AC007878, AC005191, AF085954, AC005089,	AC005261, AL133276, U67827, X75335, AC006571, Z68278, AF039906, AL022320,	AL049758, AC007286, AC012599, AC004230, AC002310, AC005385, U62317, Z97053,	AC004112, AL022316, AC010200, AC002091, AL031283, AF107885, AC005284, AC005406,
	15 - 335	15 - 507	15 - 139	15 - 259	15 - 447												-									•								
	1 - 321	1 - 493	1 - 125	1 - 245	1 - 433																													
	524956	525618	524875	9411696	974223																													
	35	36	37	38	39																										_			
	HBGBW72	HBGDA44	HBGDE85	HBGDS13	HBGDT43																				_									

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	15 - 642	15 - 589	15 - 329	15 - 569
	1 - 628	1 - 575	1-315	1 - 555
	954306	870189	933763	966132
	40	41	42	43
	HBGFA62	HBGMD05	HBGMD62	HBGMF10

					AA436104, T61144, T52957, AI696664, AA043317, AW449638, AA129864, AI499456, AI972817, AI424348, AI918494, and AA436005
HBGMG29	44	845194	1 - 328	15 - 342	
HBGMZ39	45	947112	1 - 588	15 - 602	AI820661, AI791493, AA989356, AI791282, AI732537, AI792053, AW207804, R22360, R72427, AA505927, R22019, and R72474.
HBGNA08	46	958257	1 - 223	15 - 237	
HBGND09	47	848219	1 - 1164	15 - 1178	AA781868, AW152318, AA482996, AA909463, AA758672, and AF156271.
HBGNJ14	48	914594	1 - 317	15 - 331	AC004156.
HBGNM13	64	912730	1 - 348	15 - 362	AW17740, C14389, T03269, AI905856, AW352117, AW179328, AW360811, AW177893, AW366296, AW375405, D58283, AW378532, D59859, D80022, C14331, D80166, D80195, AW177501, D80193, D59927, D59467, D51423, D59619, AW177501, D80193, D59927, D59467, D51423, D59619, AW177501, D80194, D59275, D80240, D80253, D80043, D59787, D80227, D59502, D81030, D80212, D80164, D59275, D80240, D80253, D80044, D80045, AW360817, AA30560, D57483, D80366, AA305409, C14429, D51022, D50979, D50995, D59889, AW178762, D80024, AW377671, D80378, AW178775, AW360844, D80045, AW360817, AA305578, D51060, AW377671, D80378, AW178775, AW377672, AW179023, AW178905, D80134, D81026, D51097, AW3785170, AW378518, AW3752171, AW377676, AW17731, AW178907, AW178906, D80248, AW179019, AW178902, AW377676, AW17731, AW178907, AW178906, D80248, AW179019, AW178908, AW177754, AW377676, AW179019, AW178908, AW177754, AW378528, AW177890, AW178911, D80439, D80247, AW367967, D80268, AW177723, AW178914, AW178911, D80439, D80247, AW36792, AR06482, AR06482, AR06482, AR06482, AR06482, AR06482, AR06482, AR06482, AR06482, AR06482, AR06482, AR06482, AR06482, AR06482, AR06488, AR066482, AR066482, AR066481, AR55477, H9525, AR6792, I50126, I50122, I50128, I50133, X93549, AR066482, AR066481, AR066487, AR5957, AR066491, AR066481, AR066481, AR3677, AR5994, AR066491, AR066481, AR066481, AR3677, AR5995, AR066491, AR066481, AR066491, AR066491, AR064491, AR066491, AR064913, A41171, A85477, AR06649, AR066491, AR066491, AR066491, AR064491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR064088, AB002449, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR066491, AR064913, A411912, A411912, A411912, A411912, A411912, A411912, A411912, A411912, A411912, A411912, A411912, A411912, A411912, A411912, A411912, A411912, A411912, A411912, A411912, A41191, A411912, A411912, A411912, A411912, A411912, A411912, A411
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	96	16	86	66	100	101	102
	нснор89	HCHPO55	нсновое	HCMSE07	HCOMZ41	HC00G04	HCOOI07

	AI913553, AI418464, AA299849, AA729782, AI547277, AC005005, and AC000403.	AI350354, AI904299, AI902503, D61534, T78554, AW183962, AI218626, AW304978, W74167, AI081779, AL022238, and AL137499.	T63995, and A1669879.	AIS54514, AW117613, AA401269, AA894442, AI923609, AA968468, AA779787, W56250, AI049682, AI342711, AI277156, AA424469, AA443257, AW023482, AI978942, AI611714, AL132777, and AB024689.	AA683227, H65257, Z99396, AW392670, AW372827, AL119497, AL134531, U46341, AW384394, AL119457, AL119483, AL119418, AL119324, AL119522, AL119319, AW363220, AL119396, AL038837, AL119484, AL119391, U46350, AL119341, AL119443, U46349, AL037051, AL036725, U46351, AL119353, AL119353, AL119355, AL119486, AL036024, AL042970, AL119488, AL119439, AL042989, AL119401, AL134920, AL134533, AL036924, AL119444, AL043011, AL037205, AL04265, AL134528, AL134538, AL042986, AL042944, AL043019, U46346, AL043003, AL043037, AL042551, AL042896, AL037526, AL037085, AL037085, AL037082, AL0337082, AL0337082, AL0337082, AL0337082, AL0337082, AL0337082, AL0337082, AL0337082, AL037613, AR066494, AR0660234, AR1671, AR073813, AR066436, AR066070, AL0367110	(1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TOO (1) TO	AIG78080, AW118890, AI962969, AI936455, AL037402, AA969064, AI127304, AI677882, AW 195711, H19013, N33206, AI127565, AI332958, AI089991, AI253076, AW051831, AI025225, AI004194, AI873265, AW182432, N48995, AA528395, AI290549, AI003987, AA022465, AI377431, H81787, AA225942, N44742, H19307, W25684, AI246674, N95594, H81786, Z42919, R52370, H98158, AI382954, Z43457, AI244671, AI093458, AI042622, R52369, R73912, W20350, Z39530, AA022998, C04474, W92421, R74008, F02397, N92731, AA934795, AA502534, AW081759, H98461, AA744985, AA883984, AA319261, AI619688, AL079491, N45717, and AA662787.	AL043767, AA043579, and H42377.	AW452627, and AC009248.	A1910578.					
15-516	15 - 570	15 - 703	15 - 665	15 - 839	15 - 565	15 - 438	15 - 2645	15 - 274	15 - 362	15 - 273	15 - 352	15 - 441	15 - 265	15 - 403	
1 - 502	1 - 556	1 - 689	1 - 651	1 - 825	1-551	1 - 424	1 - 2631	1 - 260	1 - 348	1 - 259	1 - 338	1 - 427	1 - 251	1 - 389	,000
969161	961595	902396	954332	965299	969151	951658	961388	963100	574510	574232	574008	625096	932383	653242	01111
103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	110
HCOOM77	HCOOX10	HCOOZ11	HCOPP18	нсооеп	<b>НСОQH112</b>	HC00007	HE8SG46	HEAAA42	HEAAB77	HEAAK46	HEAAM16	HEAAM52	HEAAN18	HEAAQ66	7 CUL 7 CULL

				AI041541, and AC006116.	AI343204, R92902, AW138732, AC011331, AL137469, AB007899, Z84480, AP000228,	AP000140, U95090, AP000078, AL050067, AC010168, AC004741, AC002426, AC005668,	AL022164, AC005034, AD000685, AL035701, AC005307, AC005067, AC005572, AC003663,	AC007056, AF099810, AC004472, AF061779, AL022399, AC000025, AC005527, AL022238,	AC005529, AC005280, AP000088, AC007298, AC004964, AC002991, AL021026, AC002287,	AF181449, AL008725, AL118516, AC006271, Z94044, and AL031985.	AA206618, AA204795, W38480, AA431939, AA587180, and AF080470.	AW088322, D80133, D80522, D80248, D80251, C14389, D51060, D81026, D59610, D51022	D80366, D80188, D59859, D51423, D80166, D59619, D80210, D51799, D80240, D58283.	D80253, D80241, D81030, D80269, D50979, D80024, D80212, D80195, D80043, D80022,	C14331, D80219, AW377671, D50995, D59467, D80391, D80164, D59275, D59787, D80227	D59502, D57483, D59889, D80196, AA305409, AA305578, D59927, C15076, D80038, D80193	C06015, D80045, C14014, D80378, D80268, D59373, AW177440, AA514186, AA514188	D80439, C14429, AW360811, AW178893, D80302, D59627, D80247, C75259, AW178983	T03269, AW375405, AW179328, AW378532, D80258, C05695, AW366296, AW360844	D58253, AW360817, D80132, AW375406, AW378534, AW178906, D51759, AW179332,	AW177501, AW377672, AW179023, D80157, AW178905, AW177511, D80134, D51103	AW178762, AW378528, D51250, T11417, AW176467, AW352171, AW377676, AW352170	AW360834, AW177731, AW178775, AW178907, AW369651, AW179019, AW179024	AW367967, AW352158, AW177505, AW360841, AW352117, AW179020, D59653.	AW178909, AW177456, AW179329, D59503, AW178980, AW178914, AW177733,	AW178908, AW178754, AW179018, T48593, D51213, D81111, D80064, AW378525, D51079.	AW179004, AW178774, C14227, D45260, AW179012, AW352120, AW352163, T02974,	AI910186, AW352174, AW378543, AW179009, AI905856, H67854, C14407, AW177728.	AW178911, AW378540, AW177722, D58246, F13647, D51221, AW367950, H67866.	AA514184, C03092, AW177508, AA809122, AW178781, Z21582, D80228, AI525923.	AW177497, AI535850, D60010, AI525917, D80014, AI557774, AW178986, D59474, T03116.	C14957, C14298, AW177723, AW179011, D59317, AW378533, C14973, D58101, D45273.	AW378539, AI525920, C14344, T03048, D50981, AI525235, AI557751, AW177734, D80168.	AI525227, AI535959, AI535686, AA285331, D59551, AI525912, D51097, C14046, D60214,	52291, AI525215, D80949, AW378542, AI525242, AI525925, AI525322, D59695
473   AL137566.		15 - 450 W79572.	147			AP00	ALO	AC0	AC0(	1			D803	D807	C143	D595	0900	D804	T032	D582	AW1	AWI	AW3	AW3	AWI	AWI	AWI	AI910	AW1	AASI	AWI.	C149	AW3	AI52:	AI53
15-473	15-361	15-	15 - 147	15 - 342	15 - 343					!	15 - 354	15 - 549																					_		
1 - 459	1 - 347	1 - 436	1 - 133	1 - 328	1 - 329						1 - 340	1 - 535																							
733632	968200	574508	752875	741305	851219					, 0, 0, 0	/85121	887321								•															
119	120	121	122	123	124					, ,	125	126		_	_					•												_	_		
HEAAT60	HEAAV10	HEAAV33	HEDAE67	HEEAD64	HEEAH07					051 4 2011	HEEAJOS	HEEAJ76																							

C16955, C05763, Z33452, AW360855, H67858, AI525237, D51053, C04682, Z30160, T02868, A62298, AR018138, AR008278, AJ132110, A84916, A62300, AF058696, AB028859, A82595, X67155, Y17188, D26022, A25909, AR060385, Y12724, A67220, D89785, A78862, D34614, AB002449, A94995, D88547, AR008443, I50126, I50132, I50128, I50133, AR066488, X82626, AR016514, AR060138, A45456, A26615, AR052274, AR016808, Y09669, A43192, A43190, AR038669, AR025207, AR066487, A30438, I14842, AR054175, D50010, AR066490, Y17187, I18367, AR008277, AR008281, A63261, A70867, AR008408, AR062872, AR016691, AR016690, U46128, AB012117, D13509, A64136, A68321, AR060133, X68127, I79511, A85396, D88507, AR068482, A44171, A85477, I19525, A86792, X93549, U79457, AF123263, AR032065, and AR008382.		AC004549.	AL137566.			H64999, and AC011311.	AA368329, AI281622, AA935827, AA581317, AI350189, AW177224, AI859906, AI039257,	AA383094, H29393, F35/89, A126/430, A126/356, A1245693, AA493533, A1668566,	AA364199, AL039515, AW151848, AI733523, AI732911, AI336771, AA614647, AI338575,	AA354695, H48017, R70883, AA736713, AI249688, AI982994, AA197089, AA496941,	AI671077, AL040360, AA834798, AI038304, AW023975, AA354677, AI003391, AI754567,	AIS69100, AW192599, AI754105, AI755214, R70884, AA351893, AI080307, F23268,	AA813203, AA456149, AA525332, AA557945, AA077637, AA533660, N55076, AW301855,	AA504951, AI342863, H65213, AI459879, AW089395, AA155817, AA363311, AI270280,	AI624038, H43183, AI905494, AI859744, W61253, AI791227, AL041681, AL041682,	AA847341, AA522864, AA601378, AA077247, T10579, AL047645, AA579082, W69639,	AA8/8492, AA132445, AI791659, AW303822, T07013, W28786, AA715508, AA126475,	AI690520, AW167202, AI114645, AI370470, AA664924, AI884404, AA678616, AL039761,	AW265688, AA653291, AW026282, M78137, AA598605, AI749306, AA524846, H94979,	AA809104, AI821945, M77964, AA584525, AI468993, AI285651, AI708108, AI207534,	AA449468, AA831801, H96919, F00937, AA745628, AI018726, AA467740, AW265484,	A1016192, AA133293, AA825954, A1734119, Z94054, L78833, AC004447, AC008044,	AC006210, AL121748, AC005678, AC005537, AC005828, AP000255, AC004158, AL132987,	AP000135, U91321, AP000031, U96409, AL133241, AC007371, AC006211, AL049781,	Z99291, AL031291, AL031685, AC005527, AC005632, AL137100, AP000558, Z82208,	AC0025/4, AC002412, AC002180, AC002599, AC005529, Z82193, AF002223, AC004383,
	15 - 326	15 - 307	15 - 347	15 - 349	15-510	15 - 444	15 - 386																			
	1 - 312	1 - 293	1 - 333	1 - 335	1 - 496	1 - 430	1 - 372																			
	673904	780838	887312	676721	735620	706935	851213				-															
	127	128	129	130	131	132	133																			
	HEEAK22	HEEAK84	HEEAL31	HEEAN24	HEEAS58	HEEAU79	HEEAW01																			

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	HEGAI82	HEGAK04	HEGAO83	HEGAP06	HEGAP31	HEGAP36	HEGAR53	HEGAY32		HEGAY52	HEGAZ61	HEPAA44	HEPAB70	HEPAD09		HEPAD40	HEPAD82	HEPAJ70	HEPAK01	HEPAK41	HEDAMOO	HEPAN19	HEPAP02								

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	191	162	163	164	165	166	167	168	169										170	171	172	173	174	175	176	177	178	179
	HEPAP12	HEPAS44	HEPBA39	HEPBB24	HEPBB60	HEPBG26	HEPBG35	HEPBH28	нервн38										HEPBH45	HEPBO69	HEPBQ47	нерво69	HEPBS10	HEPBX43	HEPCD36	HEPCE25	HEPCO59	HEPCT32

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931824	911438	069669	769973	727051	712243	509311	509308	509306	509300	942612	799665	535390	508994	518156														535359	509118	960392		934444		
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HEPCU32	HEQAE65	HEQAH70	HEQA076	HEQAZ52	HEQBA41	HETAD29	HETAF20	HETAF49	HETAF89	HETAH16	HETAH66	HETAH67	HETAJ26	HETAK75														HETAN20	HETAP59	HETAP94	HETAR06	HETAR60		

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221	222	223	224	225	226	227	228			229	230	231	232	233																	
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HLWAG51	282	964389	1 - 1712	15 - 1726	AI742201, AA702146, N41421, N42024, R53820, AI040758, AI022068, N29636, R74596, AA678080, AI743349, N92675, R56690, AA034028, AI471941, AI241444, AA331067, R81024, H54160, H59318, AI184751, AA779352, N41642, R22378, H66306, H13492, N30300, N26409, R27135, H00724, R74487, T86855, R56846, N73527, AA461540, R32619, R53865, R78495, AA367506, W90130, R27290, R21881, C17564, N63764, W90088, AI220639, H67730, H54003, A 5 5 8 5 8 5 8 5 8 5 8 5 8 8 8 8 8 8 8
HLWAH41	283	944774	1 - 946	15 - 960	AL119324, AW372827, Z99396, AL119497, AL119319, AL11931, AL119457, AL119324, AW372827, Z99396, AL119497, AL119319, AL119324, AW372827, Z99396, AL119497, AL119319, AL119341, AL119443, U46341, AL119355, AL119484, AL119386, AL119386, AL119396, U46350, U46347, U46349, AL119444, AL119483, AL119396, U46346, AL119418, AL134902, AL119496, AL134528, AL042450, AL119399, AL037205, AL119496, AL134533, U46345, AL134538, AL042965, AL042965, AL042975, AL042544, AL042896, AL043033, AL042984, AL042970, AL042542, AL043023, AL043033, AL0429470, AL04294110, A81671, AR066494, AR060234, and AR069079.
HLWA113	284	920690	1 - 869	15 - 883	AI032745, AA024482, AA922863, AI701944, AI150858, AI270332, AI151319, AA858133, AW135972, AI093066, W38159, AI247539, H04083, AA641624, H02150, H01456, AA382448, H04750, T49622, AI219287, W02674, AA676625, AI961431, H02149, N27194, AA595296, AA004543, H01225, T58656, AA649738, H01013, AA641643, AA897262, H03388, R63061, AW386273, AA909471, AW389613, R71626, R71240, AI634930, R25176, R79411, AW389614, AC004231, and AL117538.
HLWAJ64	285	746460	1 - 367	15 - 381	AA664781, AA526630, AA478355, AL037771, AI630176, AW275498, AI470646, AI124610, AA846952, AW410354, AI042311, AA837087, AI174766, H23653, C18993, AW089101, AL036037, AL119691, AA493695, AW238121, AI174766, H23653, C18993, AW089101, AL036037, AL119691, AA493695, AW238121, AI69508, H18354, AL135357, AA523841, AI343233, AI560085, AW080811, AA302973, AA292178, AL039145, AA630672, AA063173, AA704393, AW168520, AI933579, AL037383, AI783581, AA809546, F00107, AA468131, AI366993, AW021735, AA507824, AW303008, AA904274, AA679936, AW16820, AW150476, N72663, AW166808, AI246796, AW268973, AI612142, N41888, AA483256, AL043719, AI864813, AI732120, AA174016, AW440545, AA174017, AI818737, AI687343, AA548058, AL121871, AF196779, AL034379, AC006552, AF114156, AC004999, AC006241, AC006410, AC006001, AC004000, AL033392, AL031283, AJ229042, AL022320, AC006316, AC004707, AC003046, AP000952, AC004887, AL031311, AC002418, AL096702, AC006509.

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287	715727	1 - 394	15 - 408	R80441, R53837, AA367782, AA713884, AA713743, and AB033064.
288	947484	1 - 1275	15 - 1289	AA449919, AA449920, and AF119815.
589	723330	1 - 495	15 - 509	AA367499, and AI138461.
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HLWBA11	291	962996	1 - 338	15 - 352	
HLWBA25	292	677944	1 - 440	15 - 454	N47928, D78769, AA002046, AI655391, and CI6888.
HLWBE31	293	934562	1 - 329	15 - 343	
HLWBE92	294	791362	1 - 505	15 - 519	AA368122.
HLWB102	295	919639	1 - 371	15 - 385	AL133404.
HLWBK40	296	711000	1 - 432	15 - 446	
HLWBN49	297	713600	1 - 1086	15 - 1100	R27276, R83085, N79154, R67710, H67488, R66311, H54211, H80349, R27267, H66895,

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